Max-Planck-Institut
für Sonnensystemforschung

Max Planck Institute
for Solar System Research

Tätigkeitsbericht 2015
Activity Report 2015

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1. Wissenschaftliche Zusammenarbeit / *Scientific collaboration*

1.1 Wissenschaftliche Gäste (mit Aufenthalt ≥1 Woche)

Scientific guests (with stay ≥1 week)

Michael A'Hearn (University of Maryland, Department of Astronomy, College Park, USA), 15 May – 15 Aug (host: Christensen)

Animesh Angrish (Indian Institute of Technology, Delhi, India), 11 May – 26 Jul (host: Lagg)

Eleanna Asvestari (University of Oulu, Finland), 16 – 27 Feb (host: Krivova)

Miroslaw Barta (Astronomical Observatory Ondrejov, Ondrejov, Czech Republic), 01 – 15 Feb (host: Büchner)

Alexander Basilevsky (Vernadsky Institute for Analytical Chemistry and Geochemistry, Moscow, Russia), 6 Jul – 1 Aug (host: Mall)

Dennis Bodewits (University of Maryland, College Park, USA), 7 - 17 Jul (host: Sierks)

Nikolay Borisov (Izmiran, Troisk, Russia), 23 Nov – 23 Dec (host: Krüger, Fränz)

Douglas Braun (NorthWest Research Associates, CoRA Office, Boulder, CO, USA), 12 – 22 Jul, (host: Gizon)

Paul Cally (Monash University, Monash Centre for Astrophysics, School of Mathematical Sciences, Clayton, Victoria, Australia), 1 Mar – 30 Jun (host: Gizon)

Vyanktesh Chandely (Indian Institute of Technology, Delhi, India), 13 May – 24 Jul (host: Shapiro)

Yu-Chi Cheng (Institute of Astronomy, NCU, Taiwan), 18 Apr – 17 May (host: Sierks)

Dean Chou (National Tsing Hua University, Taiwan), 7 – 12 Sep (host: Gizon)

Andrzej Czechowski (Space Research Centre, Warsaw, Poland), 1 – 30 Nov (host: Hilchenbach)

Vania da Deppo (Luxor Laboratory, University of Padova, Italy), 30 Jun – 9 Jul (host: Sierks)

Suzana da Souza (INPE, Sao Jose dos Campos, Brazilia), 14 Sep – 15 Aug (host: Büchner)

Bhola Dwivedi (Banaras Hindu University, Varanasi, India), 27 Apr – 18 May (host: Solanki)

Clement Feller (LESIA, Observatoire de Paris, Meudon, France), 26 Apr – 23 May (host: Sierks)

Alberto Flandes (National Autonomous University of Mexico, Institute of Geophysics, Mexico City, Mexico), 16 Jun – 18 Jul (host: Krüger)

Sonia Fornasier (LESIA, Observatoire de Paris, Meudon, France), 1 - 9 Jul (host: Sierks)

Navathej Preetha Genesh (Indian Institute of Science Education and Research, Pune, India), 10 May - 17 Jul (host: Gizon)

Kévin Ginsburger (ISAE – SUPAERO, Toulouse, France), 31 May - 28 Aug (host: Gizon)

Elena Grigorenko (Space Research Institute, Russian Academy of Sciences, Moscow, Russia), 7 – 20 Jun (host: Kronberg)

Shravan Hanasoge (Tata Institute of Fundamental Research, Mumbai, India), 22 – 25 Jun (host: Gizon)

Moritz Heimpel (University of Alberta, Dep. of Physics, Edmonton, Canada), 2 – 30 May (host: Wicht)

Shea A. Hess Webber (George Mason University, School of Physics, Astronomy & Computational Sciences, NASA GSFC, USA), 9 Aug – 5 Sep (host: Gizon)

Attila Hirn (Center for Energy Research of the Hungarian Academy of Sciences, Budapest, Hungary), 20 Jun - 10 Jul (host: Krüger)

Yaroslaw Ilyushin (Moscow State University, Moscow, Russia), 25 Oct - 24 Dec (host: Hartogh)

Satoshi Inoue (Nagoya University, Japan), 6 Sep 15 - 31 Dec 16 (host: Büchner)

Emre Isik (Istanbul Kultur University, Istanbul, Turkey), 23 - 31 May (host: Schüssler)

Shahin Jafarzadeh (Institute of Theoretical Astrophysics, Oslo, Norway), 22 - 27 Mar (host: Solanki)

Hiroshi Kimura (Kobe University, Japan), 19 - 26 Jul (host: Hilchenbach)

Manfred Küker (Leibniz-Institut für Astrophysik Potsdam (AIP), Germany), 23 - 27 Feb (host: Gizon)

Pankaj Kumar (Korea Astronomy and Space Science Institute, Daejeon, Korea), 1 Jun – 15 Aug (host: Innes)

Takeshi Kuroda (Tohoku University, Sendai, Japan), 1 – 30 Jun (host: Hartogh)

Timothy Larson (Stanford University, USA), 22 Apr – 16 Jun (host: Gizon)

Lu Lei (Purple Mountain Observatory, Nangjing, China), 1 Aug 15 – 31 Jul 16 (host: Inhester)

Yi-Chi Lee (Institute of Astronomy, NCU, Taiwan), 1 Jul – 15 Aug (host: Sierks)

Leping Li (National Astronomical Observatory, Beijing, China), 4 Sep – 4 Oct (host: Peter)

Yuan Li (SSI, University of Macau, Macau, China), 23 Jun – 31 Dec (host: Sierks)

Zhong-Yi Lin (Graduate Institute of Astronomy, National Central University, Jhongli City, Taiwan), 1 - 10 Jul (host: Sierks)

Mija Lovric (University of Göttingen, Göttingen, Germany), 5 Nov – 31 Mar (host: Krivova)

Chad Maden (Boston University, Boston, USA), 3 – 10 Apr (host: Peter)

Puskar Mondal (Indian Institute of Technology, Kharagpur, India), 11 May – 27 Jul (host: Gizon)

Chaozhou Mou (Shandong University, Weihai, China), 5 Nov - 31 Oct 2016 (host: Peter)

Thomas Neukirch (School of Mathematics and Statistics, University of St. Andrews, St. Andrews, UK), 26 – 30 Oct (host: Wiegelmann)

Dieter Nickeler (Astronomical Institute, Ondřejov, Czech Republic), 9 Aug – 5 Sep (host: Wiegelmann)

Benard Nsamba (Mbarara University of Science and Technology (MUST), Mbarara, Uganda), 15 May – 15 Aug (host: Hekker)

Jinhye Park (Dept. of Astronomy and Space Science, Kyung Hee University, Yongin, Korea), 20 Apr – 9 May (host: Innes)

Ragadeepika Pucha (Steward Observatory, Tucson, USA), 8 Jun – 28 Aug (host: Yeo)

Anatoly Remizov (Space Research Institute, Russian Academy of Sciences, Moscow, Russia), 1 May – 30 Jun (host: Hilchenbach)

Dmitry Shaposhnikov (Moscow Institute of Physics and Technology, Moscow, Russia), 1 – 30 Nov (host: Hartogh)

Johan Silen (Finnish Meteorological Institute, Helsinki, Finland), 26 Oct – 11 Nov (host: Hilchenbach)

Felix Spanier (University Potchefstrom, Potchefstrom, Republic South Africa), 20 – 30 Jul (host: Büchner)

Andrew Steele (Carnegie Institution of Washington, Washington,USA), 22 Jun – 16 Jul (host: Goesmann)

Robert Stein (Michigan State University, Physics and Astronomy Department, East Lansing, USA), 11 - 24 Jan (host: Gizon)

Tardelli Stekel (National Institute for Space Research, São José dos Campos, Brazil), 1 Nov – 5 Dec (host: Lagg)

Rinat Tagirov (Physikalisch-Meteorologisches Observatorium, Davos, Switzerland), 10 – 23 Aug, 22 Nov – 18 Dec (host: Shapiro)

Rajashik Tarafder (Indian Institute of Science Education and Research, Kolkata, India), 19 May – 31 Jul (host: Gizon)

Jean-Gabriel Victor (Observatoire de Paris, Meudon, France), 15 Apr – 15 Jun (host: Hekker)

Erdal Yigit (George Mason University, Fairfax, USA), 1 Jun – 31 Jul (host: Hartogh)

Shangbin Young (Chinese Academy of Sciences, Beijing, China), 6 Sep – 12 Oct (host: Büchner)

Limei Yan (Peking University, Beijing, China), 10 Sep – 8 Dec (host: Peter)

Boris Zaprudin (University of Turku, Department of Physics and Astronomy, Tuorla Observatory, Piikkiö, Finland), 1 Sep – 31 Oct (host: Hilchenbach)

Xinhua Zhao (Chinese Academy of SciencesBeijing, China), 8 Jun – 7 Dec (host: Inhester)

1.2 Aufenthalt (≥1 Woche) von Wissenschaftlern des MPS an anderen Instituten

Visits (≥1 week) of MPS scientists to other institutes

Jörg Büchner: University Potchefstrom, Potchefstrom, South Africa, 29 Oct – 4 Nov

Laurent Gizon: National Astronomical Observatory of Japan (NAOJ), Mitaka, Tokyo, 1 – 31 Aug

Stein Haaland: University Center, Longyearbyen,Svalbard, Norway, 27 Oct – 8 Dec

Hardi Peter: High Altitude Observatory (HAO), Boulder, USA, 16 Jul – 7 Aug

Hardi Peter: Peking University, Beijing, China, 16 – 27 Mar

Sami K. Solanki: Kyung Hee University, Seoul, South Korea, 01 - 15 Mar, 24 – 31 Jul

Vytenis M. Vasyliunas: Space Science Laboratory, University of Massachusetts, Lowell, USA, 7 – 18 Jun

Jörn Warnecke: Aalto University, Espoo, Finland, 21 Sep – 3 Oct

Thomas Wiegelmann: Institute of Space Sciences, Shandong Univ., Weihai, China, 29 Jun – 9 Jul

1.3 Projekte in Zusammenarbeit mit anderen Institutionen

Projects in collaboration with other institutions

3He-Rich Solar Energetic Particle Events

R. Bučik, L. Guo , B. Inhester, and D. Innes in collaboration with G. M. Mason (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA); R. Gomez-Herrero (University of Alcala, Alcala de Henares, Spain); M. E. Wiedenbeck (Jet Propulsion Laboratory, Pasadena, USA).

AIDA - Asteroid Impact Deflection Assessment

N. Oklay, H. Sierks and J.-B. Vincent in collaboration with ESA, DLR (Germany), Observatoire de la Côte d´Azur (Nice, France), Applied Physics Laboratory, Johns Hopkins University (Laurel, USA).

A laboratory and telescopic study of the colours of icy solar system objects

R. Kokotanekova, P. Lacerda, and S. Lorek in collaboration with R. McCullough, T. Field, A. Fitzsimmons, A. Muntean and M. Hyland (Queen's University Belfast, UK); N. Peixinho (University of Antofagasta, Chile); A. Thirouin (Lowell Observatory, Flagstaff, USA); B. Carry (Observatoire de la Côte d'Azur, Nice, France); M. Wyatt (Cambridge University, UK); S. Fornasier (Observatoire de Paris, France); C. Snodgrass (Open University, Milton Keynes ,UK); O. Hainaut (European Southern Observatory, Garching, Germany).

A Magnitude Limited Survey of the Rotational Properties of Kuiper Belt Objects

P. Lacerda in collaboration with M. Lockhart and B. Davidsson (Uppsala University, Sweden).

Analysis and calibration of historical Ca II spectroheliograms

T. Chatzistergos and N. A. Krivova in collaboration with I. Ermolli (Istituto Nazionale di Astrofisica, Osservatorio Astronomico di Roma, Italy).

Analysis and Cross-Calibration of Historical Sunspot Number Datasets

S. K. Solanki in collaboration with I. Usoskin (University of Oulu, Finland).

Anomalous Earth flybys of spacecraft

K. Wilhelm in collaboration with B. N. Dwivedi (Indian Institute of Technology, Banaras Hindu University, Varanasi, India).

APOGEE-CoRoT

S. Hekker in collaboration with C. Chiappini, T. S. Rodrigues, B. X. Santiago, M. A. G. Maia, L. N. da Costa (Laboratório Interinstitucional de e-Astronomia, Rio de Janeiro, Brazil); A. Miglio (University of Birmingham, UK); J. Montalbán (Università di Padova, Italy); B. Mosser, R. de Assis Peralta (Observatoire de Paris, Meudon, France); L. Girardi (Istituto Nazionale di Astrofísica, Osservatorio Astronomico di Padova, Italy); M. Valentini, F. Anders, I. Minchev, M. Steinmetz (Leibniz-Institut für Astrophysik, Potsdam, Germany); A. Noels, T. Morel (Institut d'Astrophysique et de Geophysique, Liège, Belgium); M. Schultheis (Observatoire de la Côte d'Azur, Nice, France); M. Martig (Max-Planck-Institut für Astronomie, Heidelberg, Germany); C. Allende Prieto (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain); T. Kallinger (Institut für Astronomie, Universität Wien, Austria); R. A. García (Université Denis Diderot, Gif-sur-Yvette, France); S. Mathur (Space Science Institute, Boulder, USA); F. Baudin (Centre national de la recherche scientifique, Institut d´Astrophysique Spatiale, Université Paris, Orsay, France); T. C. Beers (Joint Institute for Nuclear Astrophysics, Center for the Evolution of the Elements, Notre Dame, USA); K. Cunha (Observatório Nacional, Rio de Janeiro, Brazil); P. Harding (Case Western Reserve University, Cleveland, USA); J. Holtzman (New Mexico State University, Las Cruces, USA); S. Majewski (University of Virginia, Charlottesville, USA); S. Mészáros (ELTE Gothard Astrophysical Observatory, Szombathely, Hungary); D. Nidever (University of Michigan, Ann Arbor, USA); K. Pan (Apache Point Observatory, New Mexico State University, Sunspot, USA); R. P. Schiavon (Astrophysics Research Institute, Liverpool John Moores University, UK); M. D. Shetrone

(McDonald Observatory, University of Texas, Austin, USA); D. P. Schneider (The Pennsylvania State University, University Park, USA); K. Stassun (Vanderbilt University, Nashville, USA).

APOKASC

S. Hecker in collaboration with M. H. Pinsonneault, C. Epstein, J. A. Johnson , D. Muna, J. Tayar (The Ohio State University, Columbus, USA); Y. Elsworth, W. J. Chaplin, A. Miglio (University of Birmingham, UK); R. A. García, P. Beck, T. Ceillier (Laboratoire Astrophysique, Instrumentation Modelisation, Université Denis Diderot, Gif-sur-Yvette, France); J. Holtzman (New Mexico State University, Las Cruces, USA); S. Mathur (Space Science Institute, Boulder, USA); A. García Pérez, S. R. Majewski (University of Virginia, Charlottesville, USA); V. Silva Aguirre, D. Stello (Aarhus University, Denmark); L. Girardi (Istituto Nazionale di Astrofísica, Osservatorio Astronomico di Padova, Italy); S. Basu (Yale University, New Haven, USA); M. Shetrone (University of Texas, McDonald Observatory, Austin, USA); C. Allende Prieto, D.A. García-Hernández, O. Zamora, R. Carrera (Instituto de Astrofsica de Canarias, La Laguna, Tenerife, Spain); D. An (Ewha Womans University, Seoul, Korea); T. C. Beers (University of Notre Dame, USA); D. Bizyaev, K. Pan (Apache Point Observatory, New Mexico State University, Sunspot, USA); S. Bloemen (Radboud University Nijmegen, The Netherlands); J. Bovy (Institute for Advanced Study, Princeton, USA); K. Cunha (Observatório Nacional, Sao Cristovao, Rio de Janeiro, Brazil); J. De Ridder (Instituut voor Sterrenkunde, Katholieke Universiteit Leuven, Belgium); P. M. Frinchaboy (Texas Christian University, Fort Worth, USA); R. Gilliland, Paul Harding, F. R. Hearty, D. P. Schneider (The Pennsylvania State University, University Park, USA); D. Huber (NASA Ames Research Center, Moffett Field, USA); T. S. Metcalfe (Space Science Institute, Boulder, USA); Marie Martig, Hans-Walter Rix (Max-Planck-Institut für Astronomie, Heidelberg, Germany); B. Mosser (Observatoire de Paris, France); F. Anders, C. Chiappini (Leibniz-Institut für Astrophysik, Potsdam, Germany); T. S. Rodrigues (Laboratório Interinstitucional de e-Astronomia, Rio de Janeiro, Brazil); S. Mészáros (ELTE Gothard Astrophysical Observatory, Szombathely, Hungary); D. Nidever (University of Michigan, Ann Arbor, USA); R. P. Schiavon (Astrophysics Research Institute, Liverpool John Moores University, UK); Aldo Serenelli (Institute of Space Sciences, Barcelona, Spain); I. Ivans (University of Utah, Salt Lake City, USA); T. Kallinger (Institut für Astronomie, Universität Wien, Austria); V. V. Smith (National Optical Astronomy Observatory, Tucson, USA); Gail Zasowski (Johns Hopkins University, Baltimore, USA).

ARIEL

P. Hartogh, C. Jarchow, M. Rengel and L. Rezac in collaboration with G. Tinetti,G. Branduardi-Raymont (University College London, UK); J.-P. Beaulieu, M. Ollivier (Institut d'Astrophysique de Paris, France); G. Micela, G. Malaguti, G. Piccioni, A. Sozzetti (Istituto Nazionale di Astrofisica, Osservatorio Astronomico di Palermo, Italy); H.U. Nørgaard-Nielsen, A. Hornstrup (Danish Space Research Institute, Copenhagen, Denmark); I. Ribas, M. Lopez-Morales (Institute of Space Sciences, Bellaterra, Spain); M. Swain, P. Deroo (Jet Propulsion Laboratory, Pasadena, USA); N. Bowles (University of Oxford, UK); V. Coudé du Foresto, A. Coustenis (Observatoire de Paris, Meudon, France); M.R. Zapatero Osorio (Instituto Nacional de Técnica Aeroespacial, Centro de Astrobiología, Madrid, Spain); D. Grodent (Université de Liège, Belgium); G. Kovacs (Konkoly Observatory, Budapest, Hungary); P.-O. Lagage (Commissariat à l'Energie Atomique et aux énergies alternatives, Saclay, France); T. Lim (Rutherford Appleton Laboratory, Didcot, UK); E. Pace (Università di Firenze, Italy); E. Palle (Instituto de Astrofísica de Canarias, Tenerife, Spain); E. Pascale (Cardiff University, UK); G. Wright (UK Astronomy Technology Centre, Edinburgh, UK), A. Medvedev (Universität Göttingen, Germany).

A Search for Rising Magnetic Flux Concentrations

A. C. Birch, L. Gizon, and H. Schunker in collaboration with D. Braun (NorthWest Research Associates, Boulder, USA); Y. Fan, M. Rempel (High Altitude Observatory, Boulder, USA).

ASPIICS on Proba3

W. Curdt, B. Inhester, H. Peter and S.K. Solanki in collaboration with A. Mestrau-Garreau, J. Zender (European Space Research and Technology Centre, Noordwijk, The Netherlands);

P. Rochus (Centre Spatiale Liège, Belgium); R. Peřestý (Aerospace Research and Test Establishment, Prague, Czech Republic); P. Heinzel (Astronomical Institute of the Academy of Science, Ondřejov, Czech Republic); A. Zhukov, M. Mierla, D. Berghmans(Royal Observatory, Brusselss, Belgium); ASPIICS Consortium.

ASTROD I (Astrodynamical Space Test of Relativity using Optical Devices I)

L. Gizon in collaboration with T. Appourchaux (Institut d'Astrophysique Spatiale, Orsay, France); W.-T. Ni (Purple Mountain Observatory, Nanjing, China).

Astrophysical Processes in the Heliosphere (BMBF-NRF South Africa)

J. Büchner, P. Kilian, and P. Munoz in collaboration with F. Spanier (University Potchefstroom, South Africa).

Benchmark 3D MHD solar and stellar atmosphere simulations and comparison of results from different MHD simulation codes and with observations)

D. Fabbian in collaboration with R. Collet (Aarhus University, Denmark); N. Vitas (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain); Ch. Beck (National Solar Observatory, Boulder, USA).

BepiColombo – BELA (Laser Altimeter)

U. Christensen, M. Hilchenbachand R. Kallenbach in collaboration with N. Thomas, W. Benz, K. Seiferlin (Physikalisches Institut, Universität Bern, Switzerland); T. Spohn, E. Hauber, H. Michaelis, J. Oberst (DLR, Institut für Planetenforschung, Berlin, Germany); G. Beutler (Astronomisc hes Institut, Universität Bern, Switzerland); K. Weidlich (Airbus Defence and Space Optronics, Oberkochen, Germany); D. Giardini (Institut für Geophysik, Eidgenössische Technische Hochschule, Zurich, Switzerland); O. Groussin (University of Maryland, College Park, USA); L. Jorda, P. Lamy (Laboratoire d'Astrophysique de Marseille, France); L.-M. Lara, J. J. Lopez-Moreno, R. Rodrigo (Instituto de Astrofísica de Andalucía, Granada, Spain); P. Lognonné (Institut de Physique du Globe de Paris, Saint Maur des Fossé, France); D. Resendes (Instituto Superior Técnico, Universidade Técnica de Lisboa, Portugal).

BepiColombo – MERMAG

U. Christensen in collaboration with K.-H. Glaßmeier (Technische Universität Braunschweig, Germany).

BepiColombo – MERTIS (Mercury Thermal Infrared Spectrometer)

U. Mall in collaboration with K. Jessberger (Universität Münster, Germany); DLR Institut für Planetenforschung (Berlin, Germany).

BepiColombo – MIXS

U. Christensen and M. Hilchenbach in collaboration with G.W. Fraser (PI) (University of Leicester, UK).

BepiColombo – MPPE-MSA (Mass Spectrum Analyzer as part of the Mercury Plasma Particle Experiment)

M. Fraenz and N. Krupp in collaboration with D. Delcourt (Laboratoire de Physique des Plasmas, Paris, France); Y. Saito (Japan Aerospace Exploration Agency, Institute of Space and Astronautical Science, Tokyo, Japan).

BepiColombo – SERENA-PICAM (Planetary Ion CAMera) – Detector unit of the Neutral and Charge Particle Analyzers SERENA (Search for Exospheric Refilling and Emitted Natural Abundances).

M. Fraenz and N. Krupp in collaboration with S. Orsini (PI) (Istituto di Fisica dello Spazio Interplanetario, Rome, Italy); K. Torkar (Institut für Weltraumforschung, Graz, Austria); J.-J. Berthelier (Laboratoire de Physique des Plasmas, St. Maur des Fosses, France); P. Escoubet (European Space Research and Technology Centre, Noordwijk, The Netherlands); F. Leblanc (Institut Pierre Simon Laplace, Saint Maur, Verrieres-Le-Buisson, France); K. Szego (Centre for Energy Research, Hungarian Academy of Sciences, Budapest, Hungary); O. Vaisberg (Space Research Institute, Russian Academy of Sciences, Moscow, Russia).

Brite

S. Hekker in collaboration with W. Weiss (Univerisity of Vienna, Austria); Anthony Moffat (University of Montreal, Canada).

CASSINI – MIMI/LEMMS (Low Energy Magnetospheric Measurement System of the Magnetospheric Imaging Instrument: data analysis).

A. Kotova and N. Krupp in collaboration with S. M. Krimigis, D. G. Mitchell, C. Paranicas, P. Kollmann (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA); D. Hamilton (University of Maryland, College Park, USA); I. Dandouras (Institut de Recherche en Astrophysique et Planétologie, Toulouse, France); T. P. Armstrong (Fundamental Technologies, Kansas, USA).

CAST (CERN Axion Solar Telescope)

S.K. Solanki in collaboration with CAST experiment team (CERN, Genève, Switzerland).

Castalia - Study of a mission to a Main Belt Comet

H. Böhnhardt in collaboration with A. Fitzsimmons (Queens University, Belfast, UK); A. Braukhane, M. Hallmann (DLR SpaceSystems, Bremen, Germany); M. Homeister (OHB-Systems AG, Bremen, Germany); G. Jones (University College, London, UK); A. Herique, W. Kofman (University Grenoble, France); H. Hsieh (University of Hawaii, Hilo, USA); Y. Alibert, K. Altwegg, A. Bieler, D. Schläppi (University of Bern, Switzerland); D. Prialnik (University Tel Aviv, Israel); O. Hainaut (European Southern Observatory, Garching, Germany); M. Capria (Istituto Nazionale di Astrofísica, Rome, Italy); E.-P. Miettinen, A. Pentilla, E. Zubko (University Helsinki, Finland); F. Moreno, L. M. Lara (Instituto de Astrofísica de Andalucía, Granada, Spain); I. Bertini, F. Mazari (Istituto Nazionale di Astrofísica, Padova, Italy); J. Davidsson (University Uppsala, Sweden); S. Lowry (University Kent, Canterbury, England); E. Jehin (University Liege, Belgium); J. Licandro (Instituto de Astrofísica de Canarias, Tenerife, Santa Cruz, Spain); N. Bowles, I. Thomas (University Oxford, England); M. Küppers (European Space Astronomy Centre, Villafranca, Spain); M. Pätzold (University Köln, Germany); M. Trieloff (University Heidelberg, Germany).

Chandrayaan-1 – SIR-2

U. Mall in collaboration with N. Goswami (Physical Research Laboratory, Ahmedabad, India).

Chromospheric microjets in sunspots

A. Lagg and S. K. Solanki in collaboration with L. Bharti (Mohanlas Sukhadia University, Udaipur, India).

Cluster - Cold ion outflow during geomagnetic storms

S. Haaland in collaboration with D. Welling (University of Michigan, Ann Arbor, USA); C. Chappell (Vanderbilt University, Nashville, USA).

Cluster - EISCAT

S. Haaland in collaboration with L: Baddeley, N. Partamies (University Centre in Svalbard, Longyearbyen, Norway).

Cluster - Lobe density

S. Haaland in collaboration with B. Lybekk, A. Pedersen (University of Oslo, Norway).

Cluster - Magnetopause asymmetries

S. Haaland in collaboration with G. Paschmann (Max-Planck Institut für extraterrestrische Physik, Garching, Germany); B. Sonnerup (Dartmouth College, Hanover, USA).

Cluster - Magnetopause reconnection

S. Haaland in collaboration with J. DeKeyser, L. Maes, R. Maggiolo (Belgian Institute of Aeronomy, Uccle, Belgium); J. Gjerloev (Applied Physics Laboratory, Johns Hopkins University, Laurel , USA).

Cluster - North-South Asymmetries

S. Haaland in collaboration with K. Laundal (University of Bergen, Norway).

Cluster Science Archive and German Cluster Data Centre (CSA, GCDC, archiving of RAPID-EDI data)

P. W. Daly and M. Rashev in collaboration with A. Masson, H. Laakso (ESA); C. H. Perry, J. Davies (Rutherford Appleton Laboratory, Didcot, UK).

Cluster II – CIS (Cluster Ion Spectrometer)

M. Fraenz in collaboration with I. Dandouras ((Institut de Recherche en Astrophysique et Planétologie, Toulouse, France); MPI für extraterrestrische Physik (Garching, Germany); Universities of New Hampshire, Washington, Berkeley (USA).

Cluster II – Ion outflow

M. Fraenz in collaboration with M. Andre, A. Eriksson, E. Engwall (Uppsala University, Sweden); B.Lybekk, A.Pedersen (University of Oslo, Norway); C. Johnsen, N. Ostgaard (University of Bergen, Norway); M. Förster (Geoforschungszentrum Potsdam, Germany); K. Li, H. Zhao, Q.Y. Ren (Chinese Acandemy of Sciences, Beijing, China); B. Sonnerup (Dartmouth College, Hanover, USA); G. Paschmann (Max-Planck Institut für extraterrestrische Physik, Garching, Germany).

Cluster II – RAPID (Particle spektrometer RAPID); Data analysis

P.W. Daly and E. Kronberg in collaboration with C. H. Perry (Rutherford Appleton Laboratory, Didcot, UK); A. Vaivads (Swedish Institute of Space Physics, Kiruna, Sweden); H. Breuillard (Laboratoire de Physique des Plasmas, Palaiseau Cedex, France);V. Pierrard, Kris Borremans (Brussels Institute for Statistics and Analysis, Brussels, Belgium); C. Mouikis (University of New Hampshire, Durham, USA); H. Luo (Chinese Academy of Sciences, Beijing, China); D. Turner (Aerospace, LA, USA); A. Retino (Laboratoire de Physique des Plasmas, Palaiseau, France); E. Grigorenko, A. Artemyev, S. Savin (Space Research Institute, Russian Academy of Sciences, Moscow, Russia); C. Chappell (Vanderbilt University, Brentwood, USA); M. Dobynde (Skolkovo Institute of Science and Technology, Skolkovo, Russia); Arpad Kis (Geodetic and Geophysical Institute, Hungarian Academy of Science, Sopron, Hungary); Y. Shpits (University of California Los Angeles, USA); G. D. Reeves (Los Alamos National Laboratory, Los Alamos, USA); B. Klecker (MPI for Extraterrestrial Physics, Garching, Germany).

Collaborative Research Center 963 "Astrophysical Flow Instabilities and Turbulence" - Asteroseismology and dynamos in solar-like stars

L. Gizon, E. Papini and H. Schunker in collaboration with Universität Göttingen (Germany).

Collaborative Research Center 963 "Astrophysical Flow Instabilities and Turbulence" - From solar to heliospheric flows and instabilities

J. Büchner and J. Skala in collaboration with V. Bothmer (Universität Göttingen, Germany).

Collaborative Research Center 963 "Astrophysical Flow Instabilities and Turbulence" - Magnetic fields and dynamos: from planets to low-mass stars

U. Christensen in collaboration with A. Reiners (Universität Göttingen, Germany).

Collaborative Research Center 963 "Astrophysical Flow Instabilities and Turbulence" - Origin and structure of magnetic fields in cool stars

M. Schuessler in collaboration with A. Reiners (Universität Göttingen, Germany).

Collaborative Research Center 963 "Astrophysical Flow Instabilities and Turbulence" - Simulation of reconnection and dynamo action in turbulent plasma flows

J. Büchner and F. Widmer in collaboration with W. Schmidt (Universität Göttingen, Germany).

Collaborative Research Center 963 "Astrophysical Flow Instabilities and Turbulence" - Solar turbulent convection probed by helioseismology

L. Gizon and J. Langfellner in collaboration with T. Hohage, D. Fournier (Universität Göttingen, Germany).

Comparative analysis of plasma environment at Mars and Venus

M. Fraenz in collaboration with U. Motschmann, K. H. Glassmeier (Technische Universität Braunschweig, Germany).

Comparative study of icy patches on comet nuclei using multispectral data

N. Oklay and H. Sierks in collaboration with J. Sunshine (University of Maryland, College Park, USA).

Comparison of Inversion Codes

A. Lagg in collaboration with J. M. Borrero, R. Rezai (Kiepenheuer Institut für Sonnenphysik, Freiburg, Germany); A. Asensio Ramos, A. Lopez Ariste, H. Socas-Navarro (Instituto de Astrofísica de Canarias, La Laguna, Spain); B. Lites, M. Rempel (High Altitude Observatory, Boulder, USA); T. Carroll (Leibniz-Institut für Astrophysik, Potsdam, Germany); N. Vitas (Sterrenkundig Instituut Utrecht, The Netherlands); B. Viticchie (ESA, European Space Research and Technology Centre, Noordwijk,The Netherlands).

Computer Models of Solar Eruptions

J. Büchner in collaboration with J. Santos (Universidade Tecnológica Federal do Paraná, Curitiba, Brazil); S. de Souza, M.A. Alves (National Institute for Space Research, São Jose dos Campos, Brazil).

Dawn

U. Christensen, P. Gutierrez, M. Hoffmann, A. Nathues, J. Ripken, M. Schäfer, H. Sierks, and J.-B. Vincent in collaboration with R. Jaumann, S. Mottola (DLR, Institut für Planetenforschung, Berlin, Germany); H. Michalik, B. Fiethe (Institut für Datentechnik und Kommunikationnetze, Braunschweig, Germany); C. Russell (University of California, Los Angeles, USA); C. Raymond (Jet Propulsion Laboratory, Pasadena, USA); H. Hiesinger (Institut für Planetologie, Universität Münster); T. Kneissl, N. Schmedemann (Institut für Geologische Wissenschaften, Freie Universität Berlin); V. Reddy, (Planetary Science Institute, Tucson, USA).

Dawn-dusk asymmetries in planetary plasma environments

S. Haaland and N. Krupp in collaboration with A. Runov (University of California Los Angeles, USA); C. Forsyth (Mullard Space Science Laboratory, University College London, Dorking, UK).

Decadal and Centennial Climate Response to Solar Forcing in a 3D Atmosphere-Ocean Model

N. Krivova in collaboration with G. Wen, R.F. Cahalan (NASA, Goddard Space Flight Center, Greenbelt, USA); D. Rind, J. Jonas (NASA, Goddard Institute for Space Studies, New York, USA); P. Pilewskie (Laboratory for Atmospheric and Space Physics, University of Colorado, USA).

DFG Priority Programme 1488 – Planetary Magnetism. Constraining the magnetic connection of Jupiter's and Saturn's ring planes with their stratospheres

P. Hartogh C. Jarchow, and L. Rezac in collaboration with T. Cavalié, F. Billebaud, M. Dobrijevic (Université de Bordeaux, France); J. Saur (Universität Köln; Germany); E. Lellouch, R. Moreno (Observatoire de Paris, Meudon, France); A. Medvedev (Universität Göttingen, Germany).

DFG Priority Programme 1488 - Planetary Magnetism. Interior Structure and Dynamics of the ice giants

U. Christensen and J. Wicht in collaboration with R. Redmer (Universität Rostock, Germany); S. Stellmach (Universitat Münster, Germany); N. Nettelmann (University of California, Santa Cruz, USA).

DFG Priority Programme 1488 - Planetary Magnetism. Towards realistic models for the interior dynamics of Jupiter and Saturn

J. Wicht in collaboration with R. Redmer (Universität Rostock, Germany); S. Stellmach (Universität Münster, Germany); N. Nettelmann (University of California, Santa Cruz, USA); Lucia Duarte (University of Exeter, Exeter, UK); Moritz Heimpel (University of Alberta, Edmonton, Canada).

DLR/ESA collaborative 'Gossamer Roadmap' for solar sail technology demonstration in orbit

L. Gizon in collaboration with M. Macdonald (University of Strathclyde, UK); R. Reinhard, R. Marsden (ESA, European Space Research and Technology Centre, Noordwijk,The Netherlands); T. Appourchaux (Institut d'astrophysique spatiale, Paris, France); D. Romagnoli, P. Spietz,

U. R.M.E. Geppert (DLR - Institute for Space Systems, Bremen); R. F. Wimmer-Schweingruber (Universität Kiel, Germany); T. Sekii (Solar Observatory, Tokyo, Japan).

Dynamics in the transition region and corona

H. Peter in collaboration with C.-Y. Tu, J. He (Peking University, Beijing, China).

Elemental abundance on population II stars

S. Solanki in collaboration with R. Holzreuter (Eidgenössische Technische Hochschule Zurich, Switzerland); H. Ludwig (Universität Heidelberg, Germany); A. Gallaghar (Observatoire de Paris, Meudon, France).

Evaluation of the simulated photolysis rate response to solar irradiance variability

A. I. Shapiro in collaboration with T. Sukhodolov, E. Rozanov, W. Ball, W. Schmutz (Physikalisch-Metorologisches Observatorium, Davos, Switzerland); T. Peter (Eidgenössische Technische Hochschule, Zurich, Switzerland); A. Bais, K. Tourpali (Aristotle University of Thessaloniki, Greece); P. Telford (University of Cambridge, UK); S. Smyshlyaev (Russian State Hydrometeorological University, Saint-Petersburg, Russia); B. Fomin (Central Aerological Observatory, Moscow, Russia); R. Sander (Max Planck Institute for Chemistry, Mainz, Germany); S. Bossay (Laboratoire Inter-universitaire des Systèmes Atmosphériques, Paris, France); M. P. Chipperfield, S. Dhomse (University of Leeds, UK); J. Haigh (Imperial College, London, UK).

Evolution of magnetic elements

S. K. Solanki in collaboration with J.-C. del Toro Iniesta, I. Requerey (Instituto de Astrofisica de Andalucía, Granada, Spain) and V. Martinez Pillet (National Solar Observatory, Boulder, USA).

ExoMars – MOMA

F. Goesmann, W. Goetz, M. Hilchenbach, O. Roders, and H. Steininger in collaboration with P. Mahaffy, W. Brinckerhoff (NASA, Goddard Space Flight Center, Greenbelt, USA); C. Szopa (Laboratoire Atmosphères, Milieux, Observations Spatiales, Paris, France); F. Raulin (Laboratoire Inter-universitaire des Systèmes Atmosphériques, Paris, France); Dietmar Kracht (Laser Zentrum, Hannover, Germany).

Europlanet 2020

W. Goetz and N. Krupp in collaboration with N. Mason (Open University, Milton Keynes, UK) (PI) and the Europlanet consortium comprising about 30 European institutions.

Fast Solar Polarimeter

A. Feller, F. Iglesias and S. K. Solanki in collaboration with J. Ninkovic (MPI Halbleiterlabor, Munich, Germany).

Forward and inverse modeling in helio- and geophysics

L. Gizon in collaboration with S. Hanasoge (Tata Institute of Fundamental Research and India Max Planck Partner Group, Mumbai, India); J. Tromp (Princeton University, USA).

Gaia-ESO node

S. Hekker in collaboration with Maria Bergemann (Max Planck Institute for Astronomy, Heidelberg, Germany).

Gaia-FUN-SSO (Tübitak National Observatory)

N. Oklay and J.-B. Vincent in collaboration with T. Özışık (Tübitak National Observatory, Antalya, Turkey); Z. Eker (Akdeniz University, Antalya, Turkey); GGSG network Turkey.

Galilean Satellites: Sub-surface sounding of oceans using the long wave radio emissions of Jupiter

P. Hartogh in collaboration with J. Ilyushin (Institute of Radioengineering and Electronics, Russian Academy of Sciences, Moscow, Russia).

Galileo – EPD (Energetic Particles Detector); Data analysis

M. Fraenz, E. Kronberg, N. Krupp, and A. Lagg in collaboration with B. Mauk, C. Paranicas, A. Rymer (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA); S. Kasahara (Japan

Aerospace Exploration Agency, Tokyo, Japan); K.K. Khurana (University of California Los Angeles, USA); M. Freeman (Britisch Antarctic Survey, UK); C. Jackman (University College London, UK); M. Vogt (University of Leicester, UK).

General circulation modeling of Saturn, Jupiter and warm gas giants

P. Hartogh in collaboration with A. Medvedev (Universität Göttingen, Germany); T. Kuroda (Tohoku University, Senda, Japan).

General circulation modeling of the martian atmosphere: water cycle, snow falls, Ice clouds, gravity waves and thermosphere structure

P. Hartogh in collaboration with A. Medvedev (Universität Göttingen, Germany); E. Yigit (George Mason University, Fairfax, USA); T. Kuroda (Tohoku University, Senda, Japan); D. Shaposhnikov (Moscow Institute of Physics and Technology, Moscow, Russia).

Geospace Environment Modeling (GEM): ionospheric source of magnetospheric plasma

E. Kronberg in collaboration with D. Welling (University of Michigan, Ann Arbor, USA); L. Kistler, C. Mouikis (University of New Hampshire, Durham, USA).

Global Convective Dynamo Simulations of the Sun and other Stars

J. Warnecke in collaboration with A. Brandenburg (Nordic Institute for Theoretical Physics, Stockholm, Sweden and University of Colorado, Boulder, USA); P. Käpylä (Aalto University, Espoo, Finland); M. J. Käpylä (Aalto University, Espoo, Finland).

GREGOR

A. Feller, A. Gandorfer, J. Hirzberger, A. Lagg, and S. K. Solanki in collaboration with Kiepenheuer Institut für Sonnenphysik (Freiburg, Germany); Astrophysikalisches Institut (Potsdam, Germany); Instituto de Astrofísica de Canarias (La Laguna, Tenerife, Spain).

GREST (Getting Ready for EST)

H.P. Doerr, A. Feller, and M. van Noort in collaboration with M. Collados (Instituto de Astrofisica de Canarias, La Laguna, Tenerife, Spain); J. C. del Toro Iniesta (Instituto de Astrofisica de Andalucia, Granada, Spain); A. Alvarez (Instituto Nacional de Técnica Aeroespacial, Spain); I. Ermolli (Osservatorio Astronomico di Roma, Italy); F. Berilli (Università degli Studi di Roma Tor Vergata, Rome, Italy); G. Scharmer (Institute for Solar Physics, Stockholms Universitet, Sweden); M. Mathioudakis (Queen's University Belfast, UK); S. Matthews (Mullard Space Science Laboratory, University College London, Dorking, UK); V. Greco (Istituto Nazionale di Ottica, Florence, Italy).

HELAS (European Helio- and Asteroseismology Network)

L. Gizon in collaboration with O. von der Lühe and M. Roth (Kiepenheuer-Institut für Sonnenphysik, Freiburg, Germany); P. Pallé (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain); M. Thompson (University of Sheffield, UK); J. Christensen-Dalsgaard (University of Aarhus, Denmark); M. Monteiro (Center for Astrophysics, University Porto, Portugal); M. P. Di Mauro (Istituto Nazionale di Astrofisica, Rome, Italy); C. Aerts (Katholieke Universiteit Leuven, Belgium); J. Daszyńska-Daszkiewicz (Uniwersytet Wroclawski, Breslau, Poland); T. Corbard (Centre national de la recherche scientifique, Nice, France).

Helioseismology Inversions

A. C. Birch and L. Gizon in collaboration with J. Jackiewicz (New Mexico State University, Las Cruces , USA); M. Svanda (Astronomical Observatory, Ondřejov , Czech Republic); T. Hohage (Institut für Numerische und Angewandte Mathematik, Universität Göttingen, Germany).

Helioseismology of granulation

A. C. Birch, T. L. Duvall, and L. Gizon in collaboration with D. C. Braun (NorthWest Research Associates, Boulder, USA).

Helioseismology of the Solar Dynamo

A. C. Birch and J. Schou in collaboration with M. Woodard, A. Crouch (NorthWest Research Associates, Boulder, USA)

Hinode data analysis

D. Bühler, A. Lagg, and S. K. Solanki in collaboration with S. Tiwari (NASA Marshall Space Flight Center, Huntsville, USA); Jayant Joshi (Stockholm University, Sweden); National Astronomical Observatory of Japan.

HssO (Herschel Solar System Observations)

P. Hartogh, C. Jarchow, M. Rengel, and L. Rezac in collaboration with M. Banaszkiewicz, M. I. Blecka, S. Szutowicz (Space Research Centre, Polish Academy of Science, Warsaw, Poland); F. P. Bensch (DLR, Bonn, Germany); E. A. Bergin (University of Michigan, Ann Arbor, USA); F. Billebaud (Laboratoire d'Astrophysique, Observatoire de Bordeaux, France); E. Lellouch, R. Moreno, N. Biver, D. Bockelee-Morvan, R. Courtin, J. Crovisier, T. Encrenaz (Observatoire de Paris, Medeun, France); G. A. Blake (California Institute of Technology, Pasadena, USA); J. Blommaert, L. Decin, B. Vandenbussche, C. Waelkens (Instituut voor Sterrenkunde, Katholieke Universiteit Leuven, Belgium) and others.

HST observations of active asteroids

J. Agarwal in collaboration with D. Jewitt, J. Li (University of California Los Angeles, USA); H. Weaver (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA); M. Mutchler (Space Telescope Science Institute, Baltimore, USA); S. Larson (Lunar and Planetary Laboratory, University of Arizone, Tucson, USA).

Impact of outer boundary condition in dynamo simulations

J. Wicht in collaboration with W. Dietrich, K. Hori (University of Leeds, UK).

Impact Simulation Benchmarks for AIDA mission

N. Oklay and J.-B. Vincent in collaboration with P. Michel, S. Schwartz (Observatoire de la Côte d'Azur, Nice, France); A. Stickle (Jet Propulsion Laboratory, Pasadena, USA).

Impact simulations of asteroids and comets with Hydrocodes

N. Oklay and H. Sierks in collaboration with K. Wünnemann, D. Elbeshausen (Natural History Museum, Leibniz Institute for Research on Evolution and Biodiversity, Berlin, Germany).

InSight – SEIS

M. Bierwirth, U. Christensen, L. Gizon, and B. Knapmeyer-Endrun in collaboration with B. Banerdt, K. Hurst (Jet Propulsion Laboratory, Pasadena, USA); P. Lognonné, S. de Raucourt (Institut de Physique du Globe de Paris, France); P. Zweifel, D. Mance (Eidgenössische Technische Hochschule Zurich, Switzerland); T. Pike (Imperial College London, UK); D. Mimoun (Institut Supérieur de l'Aéronautique et de l'Espace, Toulouse, France); S. Calcutt (Oxford University, UK); P. Laudet, L. Kerjean (Centre national d'études spatiales,Toulouse, France).

Instabilities in the spherical Couette system

J. Wicht in collaboration with Dan Lathrop (University of Maryland, College Park, USA).

Interplanetary Micrometeroid Environment for Exploration (IMEX)

H. Krüger in collaboration with R. Soja, R. Srama (Institut für Raumfahrtsysteme, Stuttgart, Germany); V. J. Sterken, E. Grün (Max-Planck-Institut für Kernphysik, Heidelberg, Germany).

Inter-scale coupling in magnetic reconnection

J. Büchner in collaboration with M. Barta, M. Karlicky (Astronomical Institute of the Czech Academy of Science, Ondřejov, Czech Republic).

Ion Acceleration in the Magnetosphere

E. Kronberg in collaboration with H. Luo (Key Laboratory of Ionospheric Environment, Chinese Academy of Sciences, Beijing, China); E. Grigorenko (Space Research Institute, Russian Academy of Sciences, Moscow, Russia).

IRIS data analysis

H. Peter in collaboration with B. de Pontieu (Lockheed Martin Solar and Astrophysics Lab, Palo Alto, USA); Hui Tian (Harvard Smithsonian Center for Astrophysics, Cambridge, USA); Peter Young (George Mason University, Fairfax, USA).

IRIS line identification

W. Curdt in collaboration with B. de Pontieu (Lockheed Martin Solar and Astrophysics Laboratory, Palo Alto, USA); A. Daw (Goddard Space Flight Center, Greenbelt, USA); S. Jaeggli (Montana State University, Bozeman, USA); H. Tian (Harvard-Smithsonian Center for Astrophysics, Cambridge, USA); P. Young (George Mason University, Fairfax, USA).

ISSI Team "Kinetic Processes at Airless Bodies"

E. Roussos in collaboration with M. Fillingim, J. Halekas, A. Poppe, G. Delory (University of California at Berkeley, USA); D. Brain (University of Colorado, Boulder, USA); W. Farrell (NASA Goddard Space Flight Center,Greenbelt, USA); Y. Futaana, M. Holmström, S. Fatemi (Swedish Institute of Space Physic, Kiruna, Sweden); G. Jones (Mullard Space Science Laboratory, University College London, Dorking, UK); E. Kallio (Finnish Meteorological Institute, Helsinki, Finland); T. Nakagawa (Tohoku Technical University,Sendai, Japan); Y. Saito (Japan Aerospace Exploration Agency, Institute of Space and Astronautical Science, Tokyo, Japan); V. Angelopoulos (University of California Los Angeles, USA); Peter Wurz (University of Bern, Switzerland).

ISSI Team "Magnetosphere-ionosphere-thermosphere Coupling: Differences and Similarities between the Two Hemispheres"

S. Haaland in collaboration with M. Förster (Helmholtz-Zentrum Potsdam, Germany); I. Cnossen (British Antarctic Survey, Cambridge, UK); A. Aruliah (University College London, UK); M. Conde (University of Alaska, Fairbanks, USA); A. Ridley (University of Michigan, Ann Arbor, USA).

ISSI Team "Modes of radial plasma motion in planetary systems"

N. Krupp and E. Roussos in collaboration with Chris Paranicas (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA); C. Jackman (University of Southampton, UK); N. Sergis (Academy of Athens, Greece); N. Achilleos (University College London, UK); M. Andriopoulou (Institut für Weltraumforschung, Graz, Austria); S. Badman (University of Lancaster, UK); G. Hospodarsky, T. Kennelly (University of Iowa, Iowa City, USA); X. Jia (University of Michigan, Ann Arbor, USA); K. Khurana (University of California Los Angeles, USA); Philippe Louarn (Institut de Recherche en Astrophysique et Planétologie, Toulouse, France); M. Thomsen (Planetary Science Institute, Tucson, USA).

ISSI Team "Solar Heliospheric Lyman Alpha Profile Effects"

W. Curdt in collaboration with M. Snow, G. Holsclaw (Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, USA); M. Kretzschmar (Centre national de la recherche scientifique, Orleans, France); E. Quémerais (Laboratoire Atmosphères, Milieux, Observations Spatiales, Guyancourt, France); J. Clarke (Boston University, USA); R. Gladstone (Southwest Research Institute, San Antonio, USA); M. Haberreiter (Physikalisch-Metorologisches Observatorium, Davos, Switzerland).

ISSI Team "Towards a global unified model of Europa's exosphere in view of the JUICE mission"

P. Hartogh in collaboration with Ch. Plainaki, D. Grassi, Alessandro Mura (INAF Istituto di Astrofisica e Planetologia Spaziali, Rome, Italy); T. Cassidy (Laboratory for Atmospheric and Space Physics, University of Colorado, USA); I. Dandouras (Institut de Recherche en Astrophysique et Planétologie, Toulouse, France); X. Jia (University of Michigan, Ann Arbor, USA); A. Radioti (University of Liege, Belgium); L. Roth (Southwest Research Institute, San Antonio, USA); J. Saur (Universität Köln, Germany); V. Shematovich (Institute of Astronomy, Russian Academy of Science, Moscow, Russia); P. Wurz (University of Bern, Switzerland).

ISSI Team "Towards New Models of Solar Spectral Irradiance based on 3D MHD Simulations"

D. Fabbian and S. K. Solanki in collaboration with S. Criscuoli (National Solar Observatory, Boulder, USA); P. Charbonneau (GRPS, Montréal, Canada); R. Collet (Stellar Astrophysics Centre, Aarhus,

Denmark); I. Ermolli (Osservatorio Astronomico di Roma, Roma, Italy); M. Haberreiter, C. Bolduc (Physikalisch-Metorologisches Observatorium, Davos, Switzerland); M. Rempel (High Altitude Observatory, Boulder, USA); H. Uitenbroek (National Solar Observatory, Tucson, USA); Y. Unruh (Imperial College, London, UK); S. Wedemeyer (Institute for Theoretical Astrophysics, University of Oslo, Norway); C. Peck, J. Harder (Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, USA); K. Mattig (GEOMAR Helmholtz Centre for Ocean research & Universität, Kiel, Germany).

ISSI Team "Understanding Solar Jets and their Role in Atmospheric Structure and Dynamics"

W. Curdt in collaboration with N. Raoufi (Johns Hopkins University, Baltimore, USA); E. Pariat (Observatoire de Paris, Meudon, France); S. Patsourakos (University of Ioannina, Greece); S. Antiochos (NASA, Goddard Space Flight Center, Greenbelt, USA); V. Archontis (University of St.Andrews, UK); E. DeLuca (Harvard-Smithsonian Center for Astrophysics, Cambridge, USA); H. Mason (University of Cambridge, UK); F. Moreno-Insertis (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain); M. Shimojo (Nobeyama Solar Radio Observatory, Nagano, Japan); T. Torok (Predictive Science Inc., San Diego, USA); A. Sterling (NASA Marshall Space Flight Center, Huntsville, USA).

James Webb Space Telescope "Occultations" Focus Group

E. Vilenius in collaboration with P. Santos-Sanz, J. L. Ortiz, R. Duffard (Instituto de Astrofisica de Andalucia, Granada, Spain); R. G. French (Wellesley College, Wellesley, USA); N. Pinilla-Alonso (University of Tennessee, Knoxville, USA); J. Stansberry (Space Telescope Science Institute, Baltimore, USA); Z-Y. Lin (National Central University, Taoyuan City, Taiwan); Z-W. Zhang (Academia Sinica Institute of Astronomy and Astrophysics, Taipei, Taiwan); Th. Müller (Max Planck Institute for Extraterrestrial Physics, Garching, Germany); F. Braga-Ribas (Federal University of Technology, Curitiba, Brazil); A. Bosh (Massachusetts Institute of Technology, Cambridge, USA); E. Lellouch (Observatoire de Paris, Meudon, France); G. Tancredi (Departamento de Astronomía, Montevideo, Uruguay); L. Young (Southwest Research Institute, Boulder, USA); S. N. Milam (NASA Goddard Space Flight Center, Greenbelt, USA).

JUICE-GALA (Ganymede Laser Altimeter)

U. Christensen and R. Kallenbach in collaboration with K. Weidlich (Airbus Defence and Space Optronics, Oberkochen, Germany); H. Hussmann (DLR, Institut für Planetenforschung, Berlin, Germany); N. Thomas (Universität Bern, Switzerland); L. Lara (Instituto de Astrofisica de Andalucia, Granada, Spain), K. Enya (Institute of Space and Astronautical Science, Tokio, Japan); M. Kobayashi (Chiba Institute of Technology, Narashino, Japan).

JUICE-MAG

U. Christensen, N. Krupp, and E. Roussos in collaboration with Michele Dougherty (Imperial College London, UK).

JUICE-PEP

M. Fraenz, N. Krupp, and E. Roussos in collaboration with D. Delcourt (Laboratoire de Physique des Plasmas, Paris, France); S. Barabash (Swedish Institute of Space Physics, Kiruna, Sweden).

JUICE -SWI

U. Christensen, M. Fraenz, P. Hartogh, C. Jarchow, M. Rengel, and L. Rezac in collaboration with E. Lellouch, T. Cavalié, R. Moreno, T. Fouchet, J.-M. Krieg, A. Maestrini (Observatoire de Paris, France); D. Murtagh, E. Wirström (Swedish Institute of Space Physics, Kiruna, Sweden); A. Murk (University of Bern, Switzerland); Y. Kasai (National Institute of Information and Communications Technology, Tokyo, Japan); O. Korablev (Space Research Institute, Russian Academy of Sciences, Moscow, Russia); A. Rodin (Moscow Institute of Physics and Technology, Moscow, Russia); A. Medvedev (Universität Göttingen, Germany).

Jupiter Charging Analysis Tool (JCAT)

N. Krupp and E. Roussos in collaboration with David Rodgers (ESA, European Space Research and Technology Centre, Noordwijk, The Netherlands); Pete Truscott (Kallisto Consultancy, Farnborough, UK); Y. Futaana, S. Barabash (Swedish Institute of Space Physics, Kiruna, Sweden).

KASC (Kepler Asteroseismic Science Consortium)

L. Gizon, S. Hekker, J. Schou, and H. Schunker in collaboration with W. Ball (Universität Göttingen, Germany).

LIS Experiment on Luna-Globe and Luna-Resource Landers

U. Mall in collaboration with O. Korablev, E. Grigorenko, D. Shklyar (Space Research Institute, Russian Academy of Sciences, Moscow, Russia); I. Dandouras (Institut de Recherche en Astrophysique et Planétologie, Toulouse, France); D. Delcourt (Laboratoire de Physique des Plasmas,Orsay, France); L. Kistler (University of New Hampshire, Durham, USA); R. Maggiolo (Institut d'Aéronomie Spatiale de Belgique, Brussels, Belgium); D. Welling (University of Michigan, Ann Arbor, USA).

Lithium Abundances in Globular Clusters

G. Angelou in collaboration with R. Gratton, V. D'Orazi, S. Lucatello, Y. Momany (Osservatorio Astronomico di Padova, Italy); E. Carretta, A. Bragaglia (Istituto Nazionale di Astrofísica, Osservatorio Astronomico di Bologna, Italy).

Magnetic reconnection – electron physics: simulation and laboratory experiments

J. Büchner, N. Jain, and P.Munoz in collaboration with O. Grulke (Max-Planck-Institut für Plasmaphysik, Greifswald, Germany).

Magnetospheric currents

S. Haaland in collaboration with P. Escoubet (European Space Research and Technology Centre, Noordwijk, The Netherlands); M. Dunlop (Rutherford Appleton Laboratory, Didcot, UK).

Majis for ESA's Juice mission

H. Böhnhardt in collaboration with Y. Langevin (Institut d'Astrophysique Spatiale, Centre national de la recherche scientifique, Université Paris Sud, Orsay, France) and G. Piccioni (Istituto Nazionale di Astrofísica / Istituto di Astrofisica e Planetologia Spaziali, Roma, Italy).

Mars aeronomy

M. Fraenz in collaboration with H. Opgenoorth, D. Andrews (Swedish Institute of Space Physics, Uppsala, Sweden).

Mars and Venus sheath waves

M. Fraenz in collaboration with N. Borisov (Institute of Terrestrial Magnetism, Ionosphere and Radiowave Propagation of the Russian Academy of Sciences, Troitsk, Russia); E. Echer (Instituto Nacional de Pesquisas Espaciais, São José dos Campos,Brazil).

Mars Express – ASPERA-3 (Analyzer of Space Plasmas and EneRgetic Atoms)

M. Fraenz and N. Krupp in collaboration with R. Lundin (PI), S. Barabash (Swedish Institute of Space Physics, Kiruna, Sweden); D. Winningham, R. Frahm (Southwest Research Institute, San Antonio, USA); P. Wurz (Universität Bern, Switzerland); A. Coates (Mullard Space Science Laboratory, University College London, Dorking, UK); M. Grande (Rutherford Appleton Laboratory, Didcot, UK); J. A. Sauvaud, A. Fedorov (Centre d'Etude Spatiale des Rayonnements, Toulouse, France); E. Kallio (Finnish Meteorological Institute, Helsinki, Finland); S. Orsini (Istituto di Fisica dello Spazio Interplanetario., Roma, Italy); C. C. Curtis (University of Arizona, Tucson, USA).

MARSIS

M. Fraenz in collaboration with Department of Physics and Astronomy, University of Iowa (Iowa City, USA); Jet Propulsion Laboratory (Pasadena, USA); Instituto di Fisica dello Spazio Interplanetario (Rome, Italy); Infocom Department, Sapienza – Università di Roma (Italy); School of Earth and Space Sciences, Peking University (Beijing, China).

Mars Science Laboratory (MSL) Project

W. Goetz in collaboration with J. Grotzinger (California Institute of Technology, Pasadena, USA); M. Meyer (NASA, USA); R. Gellert (University of Guelph, Canada); R. C. Wiens (Los Alamos National Laboratory, Los Alamos, USA); D. F. Blake (NASA Ames Research Center, Moffett Field, USA); I. Mitrofanov (Space Research Institute, Moscow, Russia); K. S. Edgett, M. C. Malin (Malin Space Science Systems, San Diego, USA); D. Hassler (Southwest Research Institute, San Antonio, USA); J. Gómez-Elvira (Centro de Astrobiología, Torrejón de Ardoz, Spain); Paul Mahaffy (Goddard Space Flight Center, Greenbelt, USA).

MAVEN - Mars Atmosphere and Volatile EvolutioN Mission

E. Dubinin and M. Fraenz in collaboration with D. Brain, B. Jakosky (Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, USA).

Max-Planck-Princeton Research Center for Plasma Physics

J. Büchner, R. Bucik, D. Innes, N. Jain, H. Peter, and S.K. Solanki in collaboration with O. Grulke, S. Günter, V. Igochine, F. Jenko, K. Lackner, P. Lauber, W.-C. Müller (Max-Planck-Institut für Plasmaphysik, Garching, Germany); H.-T. Janka, O. Just, E. Mueller (Max-Planck-Institut für Astrophysik, Garching, Germany); Guo Yong Fu, G. Hammett, H. Ji, S. Prager, M. Yamada (Princeton Plasma Physics Laboratory, Princeton, USA); A. Burrows, J. Goodman, M. Kunz, E. Ostriker, A. Spitkovsky, J. Stone (Department of Astrophysical Sciences, Princeton University, USA).

MHD Equilibria

T. Wiegelmann in collaboration with D. Nickeler (Astronomical Institute of the Czech Academy of Sciences, Ondřejov, Czech Republic); Thomas Neukirch (School of Mathematics and Statistics, University of St. Andrews, UK).

Mixing in Red Giant Branch Stars

G. Angelou in collaboration with J. Lattanzio, S. Campbell (Monash Centre for Astrophysics, Monash University, Melbourne, Australia); T. Constantino (University of Exeter, UK); R. Stancliffe (Argelander-Institut für Astronomie, Universität Bonn, Germany), R. Church (Astronomy & Theoretical Physics, Lund Observatory, Sweden).

Modelling brightness variations of Sun-like stars on timescales from minutes to decades

N. Krivova, M. Schüssler, A. Shapiro, S. Solanki, and K. L. Yeo in collaboration with Y. Unruh (ImperialCollege, London, UK); W. Ball, W. Finsterle, W. Schmutz (Physikalisch-Metorologisches Observatorium, Davos, Switzerland), A. Reiners, T. Reinhold (Universität Göttingen, Germany).

Modelling MHD turbulence

J. Buechner and J. Widmer in collaboration with N. Yokoi, M. Hoshino (University of Tokyo, Japan).

Modelling of the ion distribution in the inner magnetosphere

E. Kronberg in collaboration with H. Luo (Key Laboratory of Ionospheric Environment, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China); N. Ganushkina (Finnish Meteorological Institute, Helsinki, Finnland); R. Ilie (University of Michigan, Ann Arbor, USA).

NASA SDO Science Center: Developing Physics-Based Procedures for Probing Sunspots and Magnetic Regions

A. C. Birch, L. Gizon, and H. Schunker in collaboration with D. Braun, A. Crouch (NorthWest Research Associates, Boulder, USA); J. Toomre, D. Haber, B. Hindman (Joint Institute for Lab Astrophysics, University of Colorado, Boulder, USA); M. Rempel, Y. Fan, R. Centeno (High Altitude Observatory, Boulder, USA); P. Scherrer (Stanford University, USA); J. Jackiewicz (New Mexico State University, Las Cruces, USA).

NeoCon - New paradigm of Stellar Convection

J. Warnecke in collaboration with M. J. Käpylä, P. Käpylä, M. Rheinhardt (Aalto University, Finland); A. Brandenburg (Nordita, Stockholm, Sweden & National Center for Atmospheric Research, Boulder, USA); R. Arlt (Leibniz Institute for Astrophysics, Potsdam, Germany).

Nonlinear force-free coronal magnetic fields (NLFFF-consortium)

T. Wiegelmann in collaboration with C. J. Schrijver (Lockheed Martin Solar and Astrophysics Laboratory, Palo Alto, USA); Tilaye Tadesse (NASA, Goddard Space Flight Center, USA); J. Thalmann (Institute for Physics, University of Graz, Austria).

Obseravtions and Modelling of Solar Spectral Irradiance from LYRA/PROBA2 and Picard/PREMOS

N. Krivova, A.Shapiro, S. K. Solanki, and K. L. Yeo in collaboration with G. Cessateur, R.Tagirov, W. Schmutz (Physikalisch-Metorologisches Observatorium, Davos, Switzerland); M. Kretzschmar, M. Dominique (Observatoire Royal de Belgique, Brussels, Belgium); G. Thuillier (Laboratoire Atmosphères, Millieux, Observations Spatiales, Paris, France).

Observations of comets

H. Böhnhardt and C. Tubiana in collaboration with K. Meech, H. Hsieh, J. Pittichová (Institute for Astronomy, Hawaii, USA); O. Hainaut (European Southern Observatory, Garching, Germany); A. Fitzsimmons (Queen's University, Belfast, UK); S. Lowry, S. Duddy (University of Kent, Canterbury, UK); Y. Fernández, H. Campins (University of Central Florida, Orlando, USA); P. Weissman, J. Bauer (Jet Propulsion Laboratory, Pasadena, USA); M: A'Hearn, M. Kelley (University of Maryland, College Park, USA); J. Licandro (Instituto de Astrofísica de Canarias, Tenerife, Spain); C.Lisse, H. Weaver (Johns Hopkins University, Laurel, USA); W. Reach (SOFIA Science Center, Moffet Field, USA); O. Groussin, P.Lamy (Laboratoire d'Astrophysique de Marseille, France); I. Toth (Konkoly Observatory, Budapest, Hungary); E. Jehin, J. Manfroid, D. Hutsemékers (Université de Liège, Belgium); T. Lister (Las Cumbres Observatory, Santa Barbara, USA); E. Mazzotta Epifani (Istituto Nazionale di Astrofisica, Napoli, Italy); G. Paulo Tozzi (Istituto Nazionale di Astrofisica, Arcetri Observatory, Florence, Italy).

On the potential energy in a gravitationally bound two-body system

K. Wilhelm in collaboration with B. N. Dwivedi (Indian Institute of Technology, Banaras Hindu University, Varanasi, India).

Particle acceleration at the Sun

J. Büchner and X. Zhou in collaboration with W. Gan, S. Liu (Purple Mountain National Observatory, Chinese Academy of Sciences, Nanjing, China).

Particle injections and their effect on the radiation belts

E. Kronberg in collaboration with D. Turner (The Aerospace Corporation, El Segundo, USA); G. Reeves (Los Alamos National Laboratory, Los Alamos, USA); I. Dandouras (Institut de Recherche en Astrophysique et Planétologie, Toulouse, France); E. Spanswick (University of Calgary, Canada); S. Ukhorskiy, M. Gkioulidou (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA); E. Grigorenko (Space Research Institute, Russian Academy of Sciences, Moscow, Russia).

Physical and composition properties of shortperiodic and Oort Cloud comets

H. Böhnhardt and C. Tubiana in collaboration with S. Bagnulo (European Southern Observatory, Santiago de Chile, Chile / Armagh Observatory, UK); L. Barrera (Universidad Metropolitana de Ciencias de la Educación, Santiago de Chile, Chile); D. Harker (University of San Diego, USA); M. Kelley (Joint Astronomy Center, Hilo, USA); S. Kolokolova (University of Maryland, College Park, USA); L. Lara (Instituto de Astrofísica de Andalucía, Granada, Spain); M. Mumma, M. DiSanti, B. Bonev (NASA, Goddard Space Flight Center, Greenbelt, USA); D. Prialnik, E. Beer-Harari (Tel Aviv University, Israel); G. P. Tozzi (Istituto Nazionale di Astrofísica, Arcetri Observatory, Florence, Italy); D. Wooden (PI) (NASA Ames Research Center, Moffett Fields, USA); C. Woodward (University of Minnesota, Minneapolis, USA).

Planets beyond the main sequence: theory and observations

S. Schuh in collaboration with H. Perets (Technion-Isreal Institute of Technology, Haifa, Isreal); D. Schleicher (Universidad de Concepción, Concepción, Chile).

Plasma Instrument for Magnetic Sounding (PIMS) for NASA's Europa mission

E. Roussos in collaboration with Joseph Westlake (PI) (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA) and the PIMS team.

Plasma turbulence in the solar wind

J. Büchner in collaboration with H. Comisel and U. Motschmann (Technische Universität Braunschweig, Germany).

Plasmoid Instability in current sheets

J. Büchner and F. Widmer in collaboration with N. Loureiro (Instituto Superior Técnico, Lisbon, Portugal).

PLATO (PLAnetary Transits and Oscillations of stars)

M. Ammler-von Eiff, R. Burston, L. Gizon, S. Hekker and N. Krivova in collaboration with European consortium (comprising more than 100 institutions) led by H. Rauer (DLR - Institut für Planetenforschung, Berlin).

PLATO (PLAnetary Transits and Oscillations of stars) ground data center assessment study

M. Ammler-von Eiff , R. Burston, and L. Gizon in collaboration with H. Moradi (Monash University, Australia); T. Appourchaux (Institut d'Astrophysique Spatiale, Orsay, France); C. Catala, R. Samadi (Observatoire de Paris, Meudon, France); M. Deleuil (Laboratoire d'Astrophysique de Marseille, France); N. Walton (Institute of Astronomy, University of Cambridge, UK); P. Giommi (Agenzia Spaziale Italiana, ASI Science Data Center, Rome, Italy); P. Bodin (Centre national d'études spatiales, Toulouse, France).

Plumes on Europa

N. Krupp in collaboration with S. Barabash (Swedish Institute of Space Physics, Kiruna, Sweden).

PROBA II – LYRA (Large Yield Radiometer)

U. Schühle in collaboration with M. Dominique, (PI), A. BenMoussa, D. Berghmans, V. Delouille, B. Nicula,B. Giordanengo,I. Dammasch, L. Wauters, R. Van der Linden, A. Zhukov, F. Clette (Royal Observatory of Belgium, Brussels, Belgium); W. Schmutz, M. Habereiter, M. Gyo, E. Rozanov, T. Egorova, A. Shapiro, G. Cessateur (Physikalisch-Meteorologisches Observatorium, Davos, Switzerland); Y. Stockman, J.-M. Defise, J.-P. Halain, P. Rochus (Centre Spatial de Liège, Belgium); D. Gillotay, D. Fussen, F. Vanhellemont (Belgian Institute for Space Aeronomy, Brussels, Belgium); V. Slemzin, A. Mitrofanov (Lebedev Physical Institute, Moscow, Russia); D. McMullin (Naval Research Laboratory, Washington, USA); M. Kretzschmar, T. Dudok deWit (Centre national de la recherche scientifique, Orleans,France); S. Koizumi (Advanced Materials Laboratory, National Institute for Materials Science, Tsukuba, Japan); H. Amano (Meijo University, Nagoya, Japan); A. Soltani (Institut d'Electronique, de Microélectronique et de Nanotechnologie, Villeneuve d'Ascq, France).

PROBA II – SWAP (Sun Watcher using APS Detectors)

U. Schühle in collaboration with D. Berghmans(PI), D. Seaton, B. Nicula, R. Van der Linden, A. Zhukov, F. Clette (Royal Observatory of Belgium, Brussels, Belgium); J.-P- Halain, J.-M. Defise, J. H. Lecat, P. Rochus, E. Mazy, T. Thibert (Centre Spatial de Liège, Belgium); J. Zender, A. De Groof, (ESA); S. Poedts, M. Sarp Yalim (Katholieke Univerteit Leuven, Belgium); P. Nicolosi, M. G. Pelizzo (University of Padova, Italy); V. Slemzin (Lebedev Physical Institute, Moscow, Russia); P. T. Gallagher, S. Bloomfield (Trinity College, Dublin, Ireland).

Quiet Sun magnetism probed in the IR

A. Lagg and S.K. Solanki in collaboration with M. Martínez Gonzales, M. Collados (Instituto de Astrofisica de Andalucía, Granada, Spain).

RAISE – Rapid Imaging Spectrograph Experiment

U. Schühle in collaboration with D. Hassler (PI), D. Slater, C. DeForest, G. Laurent (Southwest Research Institute, San Antonio, USA); T. Ayres (University of Colorado, Boulder, USA); R. Thomas

(NASA, Goddard Space Flight Center, Greenbelt, USA); H. Michaelis (DLR, Institut für Planetenforschung, Berlin, Germany).

Reconstruction of Solar Irradiance Using a Flux Transport Model

N. Krivova, and S. K. Solanki in collaboration with Y.C. Unruh, M. Dasi Espuig (Imperial College London, UK), J. Jiang (Key Laboratory of Solar Activity, Chinese Academy of Sciences, Beijing, China).

Revision of the historical sunspot number records and its impact on reconstructions of solar irradiance and open flux

R. Cameron, N.A. Krivova, S.K. Solanki, and C.-J. Wu in collaboration with I. Usoskin, E. Asvestari, K. Mursula, G. A. Kovaltsov (University of Oulu, Finland); G. Kopp (Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, USA); M. Lockwood, M. Owens (University of Reading, UK).

Role of the Middle Atmosphere in Climate (ROMIC)

D. Fabbian, N. Krivova, S. K. Solanki, M. van Noort and K. L Yeo in collaboration with a German consortium led by F.-J. Lübken (Leibniz Institut für Atmosphärenphysik, Kühlungsborn, Germany).

Rosetta – CONSERT (Radio Tomography Project)

H. Böhnhardt in collaboration with Institut de Planétologie et d'Astrophysique de Grenoble (France).

Rosetta – COSAC (PHILAE)

F. Goesmann and H. Krüger in collaboration with F. Raulin (Laboratoire Inter-universitaire des Systèmes Atmosphériques, Creteil Cedex, France); U. J. Meierhenrich (Université Nice-Sophia Antipolis, Nice, France); C. Szopa (Laboratoire Atmosphères, Milieux, Observations Spatiales, Université de Versailles, Paris, France).

Rosetta – COSIMA

M. Hilchenbach, H. Krüger, S. Merouane, J. Paquette, and O. Stenzel in collaboration with K. Altwegg (Physikalisches Institut, Universität Bern, Switzerland); B. C. Clark (Lockheed Martin Astronautics, Denver, USA); H. Cottin, F. Raulin (Laboratoire Inter-universitaire des Systèmes Atmosphériques, Creteil Cedex, France); G. Haerendel (Max-Planck-Institut für extraterrestrische Physik, Garching, Germany); C. Engrand (Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse, Orsay, France); R. Schulz (European Space Research and Technology Centre, Noordwijk, The Netherlands); A. Glasmachers (Universität Wuppertal, Germany); E. Gün (Max-Planck-Institut für Kernphysik, Heidelberg, Germany); H. Henkel, H. von Hörner, A. Koch (von Hörner und Sulger, Schwetzingen, Germany); K. Hornung (Universität der Bundeswehr, Neubiberg, Germany); E. K. Jessberger (Institut für Planetologie, Universität Münster, Germany); Y. Langein (Institut d'Astrophysique Spatiale , Orsay, France); F. Rüdenauer (Institut für Physik, Seibersdorf, Austria); J. Rynö, J. Silén (Finnish Meteorological Institute, Helsinki, Finland); W. Steiger (ARC Seibersdorf Research GmbH, Seibersdorf, Austria); T. Stephan (University of Chicago, USA); L. Thirkell, R. Thomas, C. Briois (Laboratoire de physique et chimie de l'environnement et de l'espace, Orléans, France); K. Torkar (Institut für Weltraumforschung, Graz, Austria); M. Trieloff (Mineralogisches Institut, Universität Heidelberg, Germany); K. Varmuza (Institut für Verfahrenstechnik, Umwelttechnik und Technische Biowissenschaften, Technische Universität Wien, Austria); K. P. Wanczek (Institut für Anorganische und Physikalische Chemie, Universität Bremen, Germany); E. Zinner (Laboratory for Space Sciences, Washington University, St. Louis, USA).

Rosetta – DIM (Dust Impact Monitor)

H. Krüger in collaboration with Klaus J. Seidensticker (DLR, Institut für Planetenforschung, Berlin, Germany); Hans-Herbert Fischer (DLR, Köln, Germany); A. Hirn, I. Apathy (Hungarian Academy of Sciences, Centre for Energy Research, Budapest, Hungary); M. Sperl (DLR, Institut für Materialphysik im Weltraum, Köln, Germany); W. Arnold (Universität des Saarlands, Saarbrücken /

Universität Göttingen, Germany); Alberto Flandes (Instituto de Geofisica, La Universidad Nacional Autónoma de México, Coyoacán, Mexico).

Rosetta – MIRO (Mirowave Instrument for the Rosetta-Orbiter)

P. Hartogh, C. Jarchow, and L. Rezac in collaboration with S. Gulkis, M. Allen, M. Frerking, M. Hofstadter, M. Janssen, T. Spilker (Jet Propulsion Laboratory, Pasadena, USA); D. Muhleman (California Institute of Technology, Pasadena, USA); G. Beaudin, D. Bockelee-Morvan, J. Crovisier, P. Encrenaz, T. Encrenaz, E. Lellouch (Observatoire de Paris, Meudon, France); D. Despois (Observatoire de Bordeaux, France); H. Rauer (DLR - Institut für Planetenforschung, Berlin, Germany); P. Schlörb (University of Massachusetts, Amherst, USA).

Rosetta – OSIRIS

J. Agarwal, S. Boudreault, A. Gicquel, C. Güttler, P. Gutierrez, M. Hofmann, G. Kovacs, N. Oklay, X. Shi, H. Sierks, C. Tubiana, and J.-B. Vincent in collaboration with C. Barbieri, I. Bertini, V. da Deppo, S. Debei, M. de Cecco, F. Ferri, M. Lazzarin, S. Magrin, F. Marzani and G. Naletto (Centro di Ateneo di Studi e Attività Spaziali, University of Padova, Italy); P. Lamy, L. Jorda, O. Groussin (Laboratoire d'Astrophysique de Marseille, France); H. Rickmann, B. Davidsson (Uppsala Universitet, Sweden); R. Rodrigo,P. Gutierrez, L. M. Lara, J. J. Lopez Moreno (Instituto de Astrofísica de Andalucía, Granada, Spain); D. Koschny, K.-P. Wenzel (European Space Research and Technology Centre, Noordwijk, The Netherlands); M. A'Hearn, D. Bodewits (University of Maryland, College Park, USA); L. Sabau (Instituto Nacional de Técnica Aersospacial, Torrejon de Ardoz, Spain); M. A. Barucci, F. Fornasier, C. Leyrat (Observatoire de Paris, Meudon, France); J.-L. Bertaux (Service d'Aéronomie, Centre national de la recherche scientifique, Verrière-le-Buisson, France); M. Fulle (Osservatorio Astronomica de Trieste, Italy); H. Michalik (Institut für Datentechnik und Kommunikationsnetze, Technische Universität Braunschweig, Germany); W.-H. Ip (Institute of Space Science, National Central University, Chung Li, Taiwan); E. Kührt, J. Knollenberg (DLR, Institut für Planetenforschung, Berlin, Germany); A. Sanz (Universidad Politécnica de Madrid, Spain); N. Thomas (Physikalisches Institut, Universität Bern, Switzerland); G. Cremonese, R. Ragazzoni (Istituto Nazionale di Astrofísica, Osservatorio Astronomico, Padova, Italy); M. Küppers, R. Moissl (European Space Astronomy Centre, Madrid, Spain).

Rosetta – PHILAE (Rosetta Lander)

H. Böhnhardt and R. Roll in collaboration with S. Ulamec (DLR, Köln, Germany); J. P. Bibring (Institut d'Astrophysique Spatiale, Paris, France); P. Gaudon (Centre national d'études spatiales, Toulouse, France).

Rosetta – ROMAP (PHILAE)

M. Hilchenbach in collaboration with U. Auster (Technische Universität Braunschweig, Germany).

Rosetta – RTOF/ROSINA

U. Mall in collaboration with H. Balsiger (PI) (Universität Bern, Switzerland); Belgian Institute for Space Aeronomy (Brussels, Belgium); Centre d'Etude Spatiale des Rayonnements (Toulouse, France); Institut Pierre Simon Laplace (Saint Maur, France); Institut für Datentechnik und Kommunikationsnetze (Braunschweig, Germany); University of Michigan (Ann Arbor, USA); Southwest Research Institute (San Antonio, USA); Universität Giessen (Germany).

SDO-based magnetic modeling of the solar corona

T. Wiegelmann in collaboration with J. T. Hoeksema, X. Sun (Hansen Experimental Physics Laboratory, Stanford University, USA); J. Thalmann (Institute for Physics, Karl-Franzens-Universität, Graz, Austria); Tilaye Tadesse (NASA, Goddard Space Flight Center, Greenbelt, USA).

Seismic Constraints on Solar Convection

A.C. Birch and L. Gizon in collaboration with S. Hanasoge (Tata Institute of Fundamental Research and India Max Planck Partner Group, Mumbai, India).

SELENE2-SEIS

M. Bierwirth in collaboration with N. Kobayashi, H. Shiraishi (Japan Aerospace Exploration Agency, Institute of Space and Astronautical Science, Tokio, Japan); P. Lognonné, S. de Raucourt (Institute de Physique du Globe de Paris, France); P. Zweifel, D. Mance (Eidgenössische Technische Hochschule Zurich, Switzerland); D. Mimoun (Institute Superieur de l'Aeronautique et de l'Espace, Toulouse, France).

Short term dynamics of Earth's magnetic field

J. Wicht in collaboration with M. Hohlschneider, J. Baerenzung (Universität Potsdam, Germany).

Simulation of plasma turbulence and magnetic reconnection

J. Büchner in collaboration with M. Ashour-Abdalla and F. Jenko (University of California Los Angeles, USA).

SLAM - Solar Lower Atmosphere and Magnetism

A. Bhasari, P. Chitta, A. Feller, A. Gandorfer, J. Hirzberger, F. Iglesias, F. Kahil, A. Kaithakkal, A. Lagg, R. Manso Sainz, I. Milic, S. Narayanmurthy, S. K. Solanki, and M. van Noort in collaboration with M. Collados (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain); Kiepenheuer-Institut für Sonnenphysik (Freiburg, Germany); Institute for Solar Physics, Stockholm University, Sweden).

SOFIA–GREAT (German Receiver for Astronomy at THz frequencies)

P. Hartogh and C. Jarchow in collaboration with R. Guesten, K. Menten, P. v. d. Wal (MPI für Radioastronomie, Bonn, Germany); R. Schieder, J. Stutzki (Universität Köln, Germany); H.W. Hübers (DLR - Institut für Planetenforschung, Berlin, Germany); H. P. Röser (Institut für Raumfahrtsysteme, Universität Stuttgart, Germany).

SOHO – CELIAS (Charge, Element and Isotope Analysis System onboard SOHO)

M. Hilchenbach and J. Paquette in collaboration with H. Balsiger, A. Bürgi, J. Fischer, P. Wurz, (Physikalisches Institut, Universität Bern, Switzerland); D. Hovestadt, B. Klecker, P. Laeverenz, M. Scholer (Max-Planck-Institut für Extraterrestrische Physik, Garching, Germany); F. M. Ipavich, M. A. Coplan, G. Glöckler, S. E. Lasley, J. A. Paquette (University of Maryland, College Park, USA); R. Wimmer-Schweingruber (Universität Kiel, Germany); J. Geiss (International Space Science Institute, Bern, Switzerland); F. Gliem, K.-U. Reiche (Institut für Datentechnik und Kommunikationsnetze, Technische Universität Braunschweig, Germany); D. L. Judge, H. S. Ogawa (Space Science Center, University of Southern California Los Angeles, USA); G. G. Managadze, M. I. Verigin (Institute for Space Physics, Moscow, Russia); A. B. Galvin, H. Kucharek, M. A. Lee, Y. Litvinenko, E. Möbius (Institute for the Study of Earth, Oceans, and Space, University of New Hampshire, Durham, USA); M. Neugebauer (Jet Propulsion Laboratory, Pasadena, USA); K. C. Hsieh (University of Arizona, Tucson, USA); D. McMullin (Naval Research Laboratory, Washington, USA); A. Czechowski (Space Research Center, Polish Academy of Sciences, Warsaw, Poland).

SOHO (Solar and Heliospheric Observatory) - SUMER/LASCO Bogart Mission

W. Curdt, U. Schühle, S. K. Solanki, L. Teriaca, and K. Wilhelm in collaboration with E. Landi, U. Feldman, G. A. Doschek, P. Lemaire, A. H. Gabriel, J.-C. Vial, K. Bocchialini (Institut d'Astrophysique Spatiale, Orsay, France); J. Gurman (NASA, Goddard Space Flight Center, Greenbelt, USA); D. Hassler (Southwest Research Institute, Boulder, USA); P. G. Judge (High Altitude Observatory, Boulder, USA); M. Carlsson (Institute of Theoretical Astrophysics, University of Oslo, Norway); B. N. Dwivedi (Institute of Technology, Banaras Hindu University, Varanasi, India); J. G. Doyle (Armagh Observatory, UK); P. Heinzel, S. Gunar (Astronomical Institute, Czech Academy of Science, Ondřejov, Czech Republic); E. Avrett, H. Tian (Harvard-Smithsonian Center for Astrophysics, Cambridge, USA); P. Schwartz (Tatranska Lomnica Observatory, Slovak Republic); M. Haberreiter (Physikalisch-Metorologisches Observatorium, Davos, Switzerland).

Solar-C: LEMUR/EUVST (Large European Module for solar Ultraviolet Research; European contribution to Solar-C)

P. Barthol, S.K. Solanki , and L. Teriaca in collaboration with S. Imada, T. Shimizu (Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency, Tokyo, Japan); C. M. Brown, G. A. Doschek, C. Korendyke, H. P. Warren (Naval Research Laboratory, Washington, USA); J. M. Davila, J. Klimchuk (NASA, Goddard Space Flight Center, Greenbelt, USA); J. L. Culhane, L. Green, L. K. Harra, B. Winter (Mullard Space Science Laboratory, University College London, Dorking, UK); F. Auchère, E. Buchlin, J.-C. Vial (Institut d'Astrophysique Spatiale, Orsay, France); V. Martínez-Pillet, H. Socas-Navarro, J. Trujillo-Bueno (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain); V. Andretta, G. Cauzzi, S. Fineschi, D. Spadaro (Istituto Nazionale di Astrofisica, Italy); S. Parenti (Royal Observatory of Belgium, Brussels, Belgium); B. Kliem (Fraunhofer-Institut für Angewandte Polymerforschung, Universität Potsdam, Germany); G. Del Zanna (University of Cambridge, UK); S. Patsourakos (University of Ioannina, Greece); A. Fludra (Rutherford Appleton Laboratory, Didcot, UK); M. Siemer (DLR, Institut für Raumfahrtsysteme, Bremen, Germany); L. Poletto (Consiglio Nazionale delle Ricerche, Padua, Italy); D. Hassler (Southwest Research Institute, Boulder, USA); M. Carlsson (Institute of Theoretical Astrophysics, Oslo, Norway); J. Dudik (Astronomical Institute, Academy of Sciences, Ondřejov, Czech Republic); S. Gburek (Space Research Center, Polish Academy of Sciences, Warsaw, Poland); T. Watanabe (National Astronomical Observatory, Tokyo, Japan); K. Yoshihara (Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency, Tokio, Japan); C. DeForest (Southwest Research Institute, San Antonio, USA).

Solar-C: SUVIT Design and Science Definition

P. Barthol, A. Feller, A. Gandorfer, J. Hirzberger, A. Lagg, S. K. Solanki, and M. van Noort in collaboration with K. Ichimoto (Kyoto University, Japan); Y. Katsukawa (National Astronomical Observatory, Osawa, Japan); many other solar physics institutes in Europe and USA.

Solar coronal numerical simulations and helicity evolution in the solar corona

J. Büchner in collaboration with H. Zhang, S.Yang (Chinese Academy of Sciences, Bejing, China).

Solar Coronal Plumes and the Fast Solar Wind

K. Wilhelm in collaboration with B. N. Dwivedi (Indian Institute of Technology, Banaras Hindu University, Varanasi, India).

Solar Cycle Properties and Surface-Field Reconstruction from Sunspot Observations by S. H. Schwabe (DFG)

N. Krivova and S. K. Solanki in collaboration with M. Dasi Espuig (Imperial College London, UK); R. Arlt, V. Senthamizh Pavai (Leibniz-Institut für Astrophysik, Potsdam, Germany); I. Usoskin, K. Mursula (University of Oulu, Finland).

Solar cycle variations of magnetospheric plasma and ULF waves

E. Kronberg in collaboration with S. Gilder, M. Wack (Ludwig-Maximilian-Universität, München, Germany); H. Luo (Key Laboratory of Ionospheric Environment, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China); Y. Khotyaintsev (Swedish Institute of Space Physics, Uppsala, Sweden).

Solar cycle variation of rotation and meridional circulation

L. Gizon in collaboration with M. Rempel (High Altitude Observatory, Boulder, USA).

Solar Dynamics Observatory

L. Gizon, J. Schou, and S. K. Solanki in collaboration with P. H. Scherrer (Stanford University, USA); S. Tomczyk (High Altitude Observatoy, Boulder, USA); A. M. Title (Lockheed-Martin Solar and Astrophysics Laboratory, Palo Alto, USA).

Solar Dynamics Observatory: German Data Center (DLR)

R. Burston, L. Gizon, H. Schunker and S. K. Solanki in collaboration with M. Roth (Kiepenheuer-Institut für Sonnenphysik, Freiburg, Germany); G. Mann (Astrophysikalisches Institut Potsdam, Germany).

Solar dynamo

M. Schüssler in collaboration with J. Jiang (National Astronomical Observatory, Beijing, China); E. Isik (Istanbul Kultur University, Istanbul, Turkey).

Solar EUV spectroscopy with IRIS

H. Peter in collaboration with L. Xia (Shandong University, Weihai, China).

Solar flares

T. Wiegelmann in collaboration with J. Jing, H. Wang (New Jersey Institute of Technology, Newark, USA); C. Liu (Space Weather Research Laboratory, New Jersey Institute of Technology, Newark, USA); J. Chen (Xinjiang Astronomical Observatory, Chinese Academy of Sciences, Umuqi, China); P. Vemareddy (Udaipur Solar Observatory, Udaipur, India); J. Zhao (Purple Mountain Observatory, Nanjing, China).

Solar forcing for CMIP6 Paleo Model Intercomparison Project: last Millennium

N. A. Krivova, A. I. Shapiro, S. K. Solanki, C.-J. Wu, and K. L. Yeo in collaboration with J. Jungclaus, H. Schmidt (Max Planck Institute for Meteorology, Hamburg, Germany; E. Bard (Collège de France, Paris, France); R. Muscheler (Lund University, Sweden); I. Usoskin (University of Oulu, Finland).

Solar infrared spectropolarimetry

A. Lagg and S. K. Solanki in collaboration with M. Collados (Instituto de Astrofísica de Canarias, Tenerife, Spain).

SolarNet

R. Burston, L. Gizon, A. Lagg, S. K. Solanki and M. van Noort in collaboration with M. Collados Vera (coordinator) (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain) and 32 other institutions in Europe.

Solar observations with ALMA

M. Loukicheva and S.K. Solanki in collaboration with S. White (Air Force Research Laboratory, Albuquerque, USA); M. Carlsson (Institute of Theoretical Astrophysics, Oslo, Norway).

Solar Orbiter: EUI

R. Aznar Cuadrado, J. Büchner, W. Curdt, D. Innes, U. Schühle, S. K. Solanki, and L. Teriaca in collaboration with P. Rochus (PI), J. P. Halain, E. Renotte, J.-M. Gillis,A. Debaize, L. Rossi, T. Thibert, M. Thomé (Centre Spatial de Liège, Belgium);), D. Berghmans, A. BenMoussa, A. Zhukov, S. Parenti, B. Nicula, C. Verbeeck, (Royal Observatory of Belgium, Brussels, Belgium); L. Harra, J. Sun, D. Williams,L. van Driel-Gesztelyi, L. Green, S. Matthews, T. Kennedy, J. Tandy, P. Smith, A. Rouseau (Mullard Space Science Laboratory, University College London, Dorking, UK); T. Appourchaux, F. Auchère, J.-C Vial, E. Buchlin, G. Aulanier, C. Dumesnil, Y. Zhang(Institut d'Astrophysique Spatiale, Orsay, France), W. Schmutz, M. Habereiter,M. Gyo, D. Pfiffner (Physikalisch-Meteorologisches Observatorium, Davos, Switzerland); F. Delmotte, R. Mercier (Institut d'Optique, Orsay, France); K. Bonte (Katholieke Universiteit Leuven, Belgium); A. Gottwald, U. Kroth, C. Laubis, R.M. Klein, M. Richter, F. Scholze (Physikalisch-Technische Bundesanstalt, Berlin, Germany) .

Solar Orbiter: METIS (Multi Element Telescope for Imaging and Spectroscopy instrument)

R. Aznar Cuadrado, U. Schühle, S. K. Solanki, and L. Teriaca in collaboration with E. Antonucci, G. Nicolini, S. Fineschi, L. Abbo, A. Bemporad, G. Capobianco, G. Crescenzio, G. Massone, D. Telloni (Istituto Nazionale di Astrofísica, Osservatorio Astronomico di Torino, Italy); G. Naletto, P. Nicolosi, F. Frassetto, M.-G. Pelizzo, L. Poletto, G. Tondello, P. Zuppella, E. Verroi (Università di Padova, Italy); M. Romoli, M. Focardi, M. Pancrazzi, F. Landini, M. Velli, G. Noci, M. Landini (Università di Firenze, Italy); D. Spadaro (Osservatorio Astrofisico di Catania, Italy); V. Andretta

(Osservatorio Astronomico di Capodimonte, Italy); M. Uslenghi, S. Incorvaia, M. Fiorini (Istituto Nazionale di Astrofísica, Istituto di Astrofisica Spaziale e Fisica Cosmica, Milano, Italy); V. Da Deppo (Consiglio Nazionale delle Ricerche, Rome, Italy); M. A. Malvezzi (Università di Pavia, Italy); A. Ciaravella, F. Reale (Università di Palermo, Italy); T. Strauss (Istituto Nazionale di Astrofísica, Napoli, Italy); J. D. Moses (Naval Research Laboratory, USA); A. Berlicki, P. Heinzel (Astronomical Institute, Academy of Sciences, Czech Republic); F. Auchère, S. Parenti, J.-C. Vial (Insitut d'Astrophysique Spatiale, France); P. Lamy (Laboratoire d'Astrophysique de Marseille, France); K. Tsinganos, (University Athens, Greece); A. Gabrielli, M. Castronuovo (Agenzia Spaziale Italiana, Italy); S. Cesare, M. Montabone, T. Schillaci (Thales Alenia Space, Torino, Italy); A. Sacchetti, D. Morea (Compagnia Generale per lo Spazio, Milano, Italy).

Solar Orbiter: PHI

A.C. Birch, A. Feller, A. Gandorfer, L. Gizon, J. Hirzberger, A. Lagg, B. Loeptien, T. Riethmüller, J. Schou, U. Schuehle, S. K. Solanki, T. Wiegelmann, and J. Woch in collaboration with J. C. del Toro Iniesta (Instituto de Astrofísica de Andalucía, Consejo Superior de Investigaciones Científicas, Granada, Spain), E. Sanchis Kilders (Universidad de València, Spain), D. Orozco Suárez (Instituto de Astrofísica de Canarias, La Laguna, Spain), A. Álvarez Herrero (Instituto Nacional de Técnica Aerospacial, Torrejón de Ardoz, Spain), I. Pérez Grande (Instituto Universitario de Microgravedad, Universidad Politécnica de Madrid, Spain), J. M. Gómez Cama (Universidad de Barcelona, Spain), T. Appourchaux (Institut d'Astrophysique Spatiale, Paris, France); W. Schmidt & R. Volkmer (Kiepenheuer-Institut für Sonnenphysik, Freiburg, Germany); H. Michalik & B. Fiethe (Institut für Datentechnik und Kommunikationsnetze, Technische Universität Braunschweig, Germany), G. Scharmer (Institute for Solar Physics, Stockholm, Sweden); M. Carlsson (Institute of Theoretical Astrophysics, University of Oslo, Norway). V. Martinez Pillet (National Solar Observatory, Sunspot, USA).

Solar Orbiter: SPICE

R. Aznar Cuadrado, R. Bucik, W. Curdt, D. Innes, H. Peter, U. Schühle, S. K. Solanki, and L. Teriaca in collaboration with A. Fludra, D. Griffin, M. Caldwell, P. Eccleston, J. Cornaby, D. Drummond, W. Grainger, T. Drundy, C. Howe, K. Middleton, R. Parker, O. Poyntz Wright, B. Shaughnessy, I. Tosh, N. Waltham (Rutherford Appleton Laboratory, Didcot, UK); D. Hassler, C. DeForest, J. Andrews, E. Wilkinson, B. Walls, J. Hanley (Southwest Research Institute, Boulder, USA); J. Davila, S.K. Antiochos, T. Kucera, R. Thomas, J. Klimchuk (NASA, Goddard Space Flight Center, Washington, USA); T. Appourchaux, E. Buchlin, F. Auchère, J.-C. Vial, A. Philippon, A. Gabriel (Institut d'Astrophysique Spatiale, Orsay, France); M. Carlsson, V. Hansteen, S.V.H. Haugan (Institute of Theoretical Astrophysics, University of Oslo, Norway); M. Gyo, M. Habereiter, D. Pfiffner, W. Schmutz (Physikalisch-Meteorologisches Obervatorium, Davos, Switzerland); T. Feigl (Fraunhofer Institut für Angewandte Optik und Feinmechanik, Jena, Germany); A. Gottwald, U. Kroth, C. Laubis, R.M. Klein, M. Richter, F. Scholze (Physikalisch-Technische Bundesanstalt, Berlin, Germany)

Solar Stereoscopy

B. Inhester in collaboration with International Space Science Institute (Bern, Switzerland); T. Dudoc deWitt (Centre national de la recherche scientifique, Orleans, France); A. Vouridas (Naval Research Laboratory, Washington, USA); J.-F. Hochedez (Royal Observatory of Belgium, Brussels, Belgium); A. Llebaria (Laboratoire d'Astronomie Spatiale, Marseille, France); J. P. Wuelser (Lockheed Martin Solar and Astrophysics Laboratory, Palo Alto, USA); F. Auchere (Institut d'Astrophysique Spatiale, Orsay, France).

Solar System Objects continuum repeatability for Herschel/HIFI

M. Rengel in collaboration with D. Teyssier (European Space Astronomy Centre, Villafranca, Spain); M. Mueller, W. Jellema, I. Avruch (SRON - Netherlands Institute for Space Research Utrecht, The Netherlands); R. Moreno (Observatoire de Paris, France).

SOLID

N. A. Krivova, A. I. Shapiro, S. K. Solanki and K. L. Yeo in collaboration with W. Schmutz, M. Haberreiter, W. Finsterle, C. Wehrli, A. Shapiro, G. Cessateur (Physikalisch-Metorologisches Observatorium, Davos, Switzerland); A. Hauchecorne, G. Thuillier, J.-F. Hochedez (Laboratoire Atmosphères, Milieux, Observations Spatiales, Université de Versailles, Paris, France); T. Dudok de Wit, M. Kretzschmar, M. Schöll (Laboratoire de physique et chimie de l'environnement et de l'espace, Orleans, France); V. Delouille, C. Verbeeck, L. Lefevre, C. Marqué (Royal Observatory of Belgium, Brussels, Belgium); R. Qahwaji, S Ipson, O. Nibouche (University of Bredford, UK); M. Weber, W. Chehade (Universität Bremen, Germany); Y. Unruh, M. Dasi Espuig (Imperial College, London, UK); I. Ermolli (Istituto Nazionale di Astrofísica, Osservatorio di Roma, Italy); H. Mason, G. Del Zanna (University of Cambridge, UK); K. Tourpali, S. Misios (Aristotele University Thessaloniki, Greece).

Sources of the Solar Spectral Irradiance Variability

N. A. Krivova and S. K. Solanki in collaboration with R. Tagirov, W. Ball, W. Schmutz (Physikalisch-Metorologisches Observatorium, Davos, Switzerland); Y. Unruh (Imperial College London, UK); J.S. Morrill (E.O. Hulburt Center for Space Research, Naval Research Laboratory, Washington, USA).

SpaceInn

A. C. Birch, L. Gizon, and J. Schou in collaboration with Kiepenheuer Institut für Sonnenphysik (Freiburg, Germany); Stellar Astrophysics Centre, Universität Aarhus (Denmark); Centro de Astrofísica da Universidade do Porto (Portugal); Commissariat à l'énergie atomique et aux énergies alternatives (France); University of Birmingham (UK); Istituto Nazionale di Astrofísica, Osservatorio Astronomico (Italy); Istituto di Astrofisica e Planetologia Spaziali (Roma, Italy); Laboratoire d'études spatiales et d'instrumentation en astrophysique, Observatoire de Paris (Meudon, France); Instituut voor Sterrenkunde, Katholieke Universiteit Leuven (Belgium); Research Centre for Astronomy and Earth Sciences, Hungarian Academy of Sciences (Budapest, Hungary).

Spectral characteristics of geomagnetic secular variation

U. Christensen in collaboration with H. Amit (Université de Nantes, France).

Spectroscopy of asteroids

H. Böhnhardt and C. Tubiana in collaboration with S. Protopapa (University of Maryland, College Park, USA); H. Hsieh (Institute for Astronomy, Hawaii, USA); P. Vernazza (European Southern Observatory, Garching, Germany); P. Vernazza, R. Michelsen, H. Haack (University of Copenhagen, Denmark); A. Fitzsimmons (Queen's University, Belfast, UK); I. Williams (Queen Mary University, London, UK).

Statistical Properties of Magnetic Field Variations

J. Wicht in collaboration with D. Meduri (Institut de Recherche en Astrophysique et Planétologie, Toulouse, France).

Stellar Astrophysics Centre (SAC)

G. Angelou, E. Guggenberger and S. Hekker and in collaboration with J. Christensen-Dalsgaard & team (Stellar Astrophysics Centre, Aarhus, Denmark); B. Chaplin, A. Miglio, Y. Elsworth (School of Physics and Astronomy, University of Birmingham, UK); D. Stello, T. Bedding, D. Huber (University of Sydney, Australia).

STEREO – IMPACT/SIT (Suprathermal Ion Telescope)

R. Bučik and U.Mall in collaboration with J. Luhmann (University of California, Berkeley, USA); V. Bothmer (Universität Göttingen, Germany) and members of the following institutes: NASA, Goddard Space Flight Center (Greenbelt, USA); NASA, Jet Propulsion Laboratory (Pasadena, USA); California Institute of Technology (Pasadena, USA); Los Alamos National Laboratory (Los Alamos, USA); Département de Recherche Spatiale, Observatoire de Paris (Meudon, France); University of Michigan (Ann Arbor, USA); University of Colorado (Boulder, USA); Universität Kiel (Germany); Research Institute for Particle and Nuclear Physics (Budapest, Hungary); Science Applications

International Corporation (San Diego, USA); Centre d'Etude Spatiale des Rayonnements (Toulouse, France); European Space Research and Technology Center (Noordwijk, The Netherlands); University of Maryland (College Park, USA); Space Environment Centre, National Oceanic and Atmospheric Administration, (Boulder, USA).

STEREO – Space weather monitor for cosmic rays

B. Inhester in collaboration with K. Kudela, I. Parnahaj (Institute of Experimental Physics, Slovak Academy of Sciences, Kosice, Slovakia).

Stratospheric Processes and their Role in Climate SOLARIS-HEPPA

N. A. Krivova, S. K. Solanki, C.-J. Wu and K. L. Yeo in collaboration with an international consortium of about 45 institutions.

Structure of the Chromosphere and Transition Region: Coordinated DST-IRIS-SUMER observations

L. Teriaca in collaboration with G. Cauzzi (Osservatorio Astrofisico di Arcetri, Firenze, Italy); K. Reardon (National Solar Observatory, Sunspot, USA).

Structure of the solar chromosphere from mm wave data: preparing for ALMA

M. Loukitcheva and S. K. Solanki in collaboration with S. White (University of Maryland, Greenbelt, USA).

Submm ground-based observations of the Venusian atmosphere

P. Hartogh and M. Rengel in collaboration with H. Sagawa (Kyoto Sangyo University, Japan); R. Güsten (Max-Planck-Institut für Radioastronomie, Bonn, Germany).

Subsurface structure of sunspots

T. L. Duvall in collaboration with P. Cally (Monash University, Melbourne, Australia).

SUIT on Aditya-L1

A. Gandorfer, N. A. Krivova, and S. K. Solanki in collaboration with an Indian consortium led by D. Thripathi (Inter-University Centre for Astronomy and Astrophysics, Pune, India).

SUNRISE

P. Barthol, A. Feller, A. Gandorfer, L. Gizon, J. Hirzberger, A. Lagg, T. Riethmüller, S. K. Solanki, M. van Noort, and T. Wiegelmann in collaboration with José Carlos del Toro Iniesta (Instituto de Astrofísica de Andalucia, Granada, Spain); W. Schmidt (Kiepenheuer-Institut für Sonnenphysik, Freiburg, Germany); M. Knölker, S. McIntosh (High Altitude Observatory, National Center for Atmospheric Research, Boulder, USA); V. Martinez-Pillet (National Solar Observatory, Boulder, USA); Y. Katsukawa (National Astronomical Observatory of Japan, Tokyo, Japan); A. Vourlidas (Applied Physics Laboratory, Johns Hopkins University, Laurel, USA); I. Pérez Grande (Instituto Universitario de Microgravedad, Universidad Politécnica de Madrid, Spain).

Sunspots

D. Bühler, A. Lagg, and M. van Noort in collaboration with Jayant Joshi (Stockholm University, Department of Astronomy, Stockholm, Sweden) and S. Tiwari (NASA Marshall Space Flight Center, Huntsville, USA).

Sunspot statistics using MDI

N. A. Krivova and S. K. Solanki in collaboration with S. Goel (Udaipur Solar Observatory, Udaipur, India).

Surface exploration of Kuiper Belt Objects and Cometary Nuclei

H. Böhnhardt in collaboration with S. Bagnulo (Armagh Observatory, UK); A. Barucci (Observatory Paris, Meudon, France); D. Cruikshank (NASA, Ames Research Center, Moffett Field, USA); W. Grundy (Lowell Observatory, Flagstaff, USA); T. Herbst (MPI für Astronomie, Heidelberg, Germany); K. Muinonen (University of Helsinki, Finland); C. Olkin (Southwest Research Institute, Boulder, USA); G. P. Tozzi (Istituto Nazionale di Astrofísica, Arcetri Observatory, Florence, Italy); L. Lara (Instituto de Astrofísica de Andalucía, Granada, Spain).

Surface magnetic field effects in local helioseismology

A. C. Birch and L. Gizon in collaboration with D. C. Braun (NorthWest Research Associates, Boulder, USA); P. S. Cally (Monash University, Victoria, Australia).

The Absolute Reference Spectrograph at the VTT

H.-P. Doerr in collaboration with W. Schmidt, R. Schlichenmaier, T. J. Kentischer (Kiepenheuer-Institut für Sonnenphysik, Freiburg, Germany).

The Maunder Minimum

S. K. Solanki and N. A. Krivova in collaboration with I. Usoskin (University of Oulu, Finland); R. Arlt (Leibniz Institute for Astrophysics, Potsdam, Germany); E. Asvestari, K. Mursula (University of Oulu, Finland); M. Käpylä (Aalto University, Espoo, Finland); G. A. Kovaltsov (Ioffe Physical-Technical Institute, St. Petersburg, Russia); D. Sokoloff (Moscow State University and IZMIRAN, Moscow, Russia); W. Soon (Harvard-Smithsonian Center for Astrophysics, Cambridge, USA); J. M. Vaquero (Universidad de Extremadura, Cáceres, Spain); M. Lockwood, J. O'Reilly, M. Owens, C. J. Scott (University of Reading, UK).

The solar radius determined from observations made during eclipses by bolometric and photometric instruments onboard the PICARD satellite

A. I. Shapiro in collaboration with G. Thuillier (Laboratoire Atmosphères, Millieux, Observations Spatiales, Paris, France); M. van Ruymbeke (Royal Observatory of Belgium, Brussels, Belgium); S. Sofia (Yale University, USA); R. Tagirov, W. Schmutz (Physikalisch-Meteorologisches Observatorium, Davos, Switzerland).

THOR - Turbulence Heating ObserveR

M. Fraenz and E. Kronberg in collaboration with A. Retino, D. Delcourt (Laboratoire de Physique des Plasmas, Palaiseau Cedex, France); A. Vaivads (Swedish Institute of Space Physics, Kiruna, Sweden); H. Kusharek, L. Kistler (University of New Hampshire, Durham, USA).

TNOs are cool

P. Hartogh, P. Lacerda, M. Rengel, and E. Vilenius in collaboration with T. Müller (Max-Planck-Institut für extraterrestrische Physik, Garching, Germany); E. Lellouch, A. Barucci, J. Crovisier, A. Delsanti, A. Dorresoundiram, S. Fornasier, D. Hestroffer (Observatoire de Paris, Meudon, France); J. Stansberry, M. Müller, D. Trilling (Northern Arizona University, Flagstaff, USA); E. Dotto (Istituto Nazionale di Astrofísica, Osservatorio Astronomico di Roma, Italy); R. Duffard, P. Gutierres, L. Lara, R. Moreno, J.-L. Ortiz, P. Sanz, A. Thirosin (Instituto de Astrofísica de Andalucía, Granada, Spain); O. Groussin (Laboratoire d'Astrophysique de Marseille, France); O. Hainaut (European Southern Observatory, Garching, Germany); A. Harris (DLR - Institut für Planetenforschung, Berlin, Germany) J. Horner (Open University, Milton Keynes, UK); D. Jewitt (University of Hawaii, Honolulu, USA); M. Kidger, T. Lim (European Space Astronomy Centre, Villafranca, Spain); C. Kiss (Konkoly Observatory, Budapest, Hungary); N. Thomas (Universität Bern, Switzerland).

Tools for Local Helioseismology

A. C. Birch in collaboration with A. Crouch, B. Javornik, D. Braun (NorthWest Research Associates, Boulder, USA).

Tools for THOR

S. Haaland in collaboration with E. Eriksson, A. Vaivads (Swedish Institute of Space Physics, Uppsala, Sweden).

Towards a more complete Assessment of the Impact of Solar Variability on the Earth's Climate

N. A. Krivova and A. I. Shapiro in collaboration with a European consortium led by T. Dudok de Wit (Université d'Orléans, France); K. Matthes (Helmholtz-Zentrum für Ozeanforschung, Kiel, Germany); I. Ermolli (Osservatorio Astronomico di Roma, Monte Porzio Catone, Italy).

Towards a Self-Consistent Model of the Thermal Structure of Venus' Atmosphere

M. Rengel in collaboration with S. S. Limaye (University of Wisconsin, Madison, USA); D. Grassi, A. Migliorini (Agenzia Spaziale Italiana, Rome, Italy); T. Imamura (Japanese Aerospace Exploration Agency, Sagamihara, Japan); S. Lebonnois (Laboratoire de Météorologie Dynamique, Paris, France); A. Mahieux, A. C. Vadaele (Belgian Institute for Space Aeronomy, Brussels, Belgium); F. Montmessin (Laboratoire Atmosphères, Milieux, Observations Spatiales, Verrières le Buisson, France); M. Pätzold, M. Sornig, S. Tellmann (Rheinisches Institut für Umweltforschung, Köln, Germany); I. Müller Wordag (Imperial College London, UK); L. Zasova, A. Rodin (Space Research Institute, Moscow, Russia); T. Clancy, B. Sandor (Space Science Institute, Boulder, USA); S. Bougher (University of Michigan, Ann Arbor, USA); C. Wilson (University of Oxford, UK); T. Widemann (Université de Paris, France).

Towards Understanding the Solar Wind: Coupling Transient Activity fron the Sun to the Heliosphere

T. Wiegelmann in collaboration with E. K. J. Kilpua (University of Helsinki, Finland); M. S. Madjarska (Armagh Observatory, Ireland); Klaus Galsgaard (Niels Bohr Institute, Copenhagen, Denmark).

Turbulence-Driven Formation of Magnetic Flux Concentrations

J. Warnecke in collaboration with A. Brandenburg (Nordic Institute for Theoretical Physics, Stockholm, Sweden and University of Colorado, Boulder, USA); I. Rivero Losada (Nordic Institute for Theoretical Physics, Stockholm, Sweden); N. Kleeorin, I. Rogachevski (Ben-Gurion University of the Negev, Be'er Sheva, Israel).

Ulysses – DUST

H. Krüger in collaboration with N. Altobelli, C. Polanskey (Jet Propulsion Laboratory, Pasadena, USA); B. Anweiler, D. Linkert, G. Linkert, R. Srama (Max-Planck-Institut für Kernphysik, Heidelberg, Germany); E. Grün, R. Srama (MPI für Kernphysik, Heidelberg / Hawaii Institute of Geophysics and Planetology, Honolulu, USA); S. F. Dermott, B. A. Gustafson (University of Florida, Gainesville, USA); A. Flandes (Instituto de Geofísica, La Universidad Nacional Autónoma de México, Coyoacán, Mexico); A. L. Graps (Istituto Nazionale di Astrofísica, stituto di Fisica dello Spazio Interplanetario, Rome, Italy); D. P. Hamilton (University of Maryland, College Park, USA); M. S. Hanner (Jet Propulsion Laboratory, Pasadena, USA); M. Horany (Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, USA); M. Landgraf (ESA, European Space Operations Centre, Darmstadt, Germany); B. A. Lindblad (Lund Observatory, Sweden); I. Mann (Institut für Planetologie, Universität Münster, Germany); J.A.M. McDonnell (Planetary and Space Science Research Institute, Milton Keynes, UK); G. E. Morfill (Max-Planck-Institut für Extraterrestrische Physik, Garching, Germany); G. Schwehm (European Space Research and Technology Centre, Noordwijk, The Netherlands).

Understanding the Sources of Solar Energetic Particles

R. Bučik in collaboration with E. R. Christian, G. A. De Nolfo (NASA, Goddard Space Flight Center, Greenbelt, MD, USA).

Using SDO/HMI data to investigate the energization of the coronal magnetic field

A. C. Birch in collaboration with G. Barnes, K.D. Leka, D. Braun (Colorado Research Associates, Boulder, USA); M. Wheatland (University of Sydney, Australia).

UV solar irradiance in observations and the NRLSSI and SATIRE-S models

N. A. Krivova, S. K. Solanki, and K. L. Yeo in collaboration J. Morrill (Naval Research Laboratory, Washington, USA); Y.C. Unruh (Imperial College, London, UK); W.T. Ball (Physikalisch-Meteorologisches Observatorium, Davos, Switzerland).

Venus Express – ASPERA-4 (Analyzer of Space Plasmas and EneRgetic Atoms)

M. Fraenz and N. Krupp in collaboration with S. Barabash (PI), R. Lundin (Swedish Institute of Space Physics, Kiruna, Sweden); D. Winningham, R. Frahm (Southwest Research Institute, San Antonio, USA); P. Wurz (Universität Bern, Switzerland); A. Coates (Mullard Space Science Laboratory, University College London, Dorking, UK); M. Grande (Rutherford Appleton Laboratory,

Didcot, UK); C. C. Curtis (University of Arizona, Tucson, USA); J. A. Sauvaud, A. Fedorov (Centre d'Etude Spatiale des Rayonnements, Toulouse, France); E. Kallio (Finnish Meteorological Institute, Helsinki, Finland); S. Orsini (Istituto di Fisica dello Spazio Interplanetario, Rome, Italy).

WASPAM / CAWSES

P. Hartogh and C. Jarchow in collaboration with G. Hansen (Norsk Institutt for Luftforskning, Tromsö, Norway); U. P. Hoppe (Forsvarets Forskningsinstitutt, Kjeller, Norway); M. Gausa (Arctic Lidar Observatory for Middle Atmosphere Research, Andenes, Norway); U. von Zahn, F. J. Lübken, U. Berger, G. Sonnemann (Fraunhofer-Institut für Angewandte Polymerforschung, Kühlungsborn, Germany); G. Nedoluha, M. Stevens (Naval Research Laboratory,Washington, USA); P. Espy (British Antarctic Survey, Cambridge, UK); Y. Kasai (National Institute of Information and Communications Technology, Tokyo, Japan).

Wave-particle Interaction within the Outer Radiation Belt

E. Kronberg in collaboration with O. Santolik, E. Macusova (Institute of Atmospheric Physics, Czech Academy of Sciences, Prague, Czech Republic); M. Balikhin (University of Sheffield, UK).

Waves in the solar atmosphere

R. Bučik and L. Guo in collaboration with J. Park, Y.-J. Moon (Kyung Hee University, Seoul, Korea); S. W. Kahler (Air Force Research Laboratory, Kirtland, USA).

2. Vorschläge und Anträge / *Proposals*

2.1 Projektvorschläge / *Project proposals*

Active region coronal magnetic field measurements: complementing NASA space data with microwave imaging spectro-polarimetry
submitted to NASA , pending
T. Wiegelmann with G. M. Nita (New Jersey Institute of Technology, Newark, USA) and others.

Apollo Passive Seismic Experiment Expanded Event Catalog
submitted to NASA; selected
B. Knapmeyer-Endrun with R. Weber (NASA Marshall Space Flight Center, Huntsville, USA); S. Nagihara (Texas Tech University, Lubbock, USA); Y. Nakamura (University of Texas, Austin, USA); C. Hammer (ETH Zürich, Switzerland); T. Kawamura (IPGP - Institut de physique du globe de Paris, Paris, France); W. Kiefer (Lunar and Planetary Institute, Houston, USA).

Astrophysical Flow Instabilities and Turbulence (extension SFB)
submitted to DFG; not selected
L. Gizon with Stefan Dreizler (U. Göttingen).

Castalia – a Mission to a Main Belt Comet
sbmitted to ESA M4 call; not selected
H. Böhnhardt, M. Hilchenbach with G. Jones, A. J. Coates, A. Smith (Mullard Space Science Lab, UCL, Dorking, UK); K. Altwegg, U. Marboeuf (Universität Bern, Switzerland); Mark Bentley (Institut für Weltraumforschung, Graz, Austria); I. Bertini (University of Padova, Italy); A, Bieler (University of Michigan, Ann Arbor, USA); N. Bowles, I. Thomas (University of Oxford, UK); A. Braukhane (DLR, Bremen, Germany); M. T. Capria, V. Della Corte (INAF/IAPS, Rome, Italy); Y.-J. Choi (Korea Astronomy and Space Science Institute, Daejon, Korea); V. Ciarletti (LATMOS, Paris, France); and many others

Comparison of global non-potential magnetic field models of the solar corona
submitted to ISSI; selected
T. Wiegelmann with A. Yeates (Durham University, Durham, UK) and others.

Connecting SOLar and stellar Variabilities
submitted to ERC; selected
A. Shapiro

EuroMoon
submitted to ISSI; selected
U. Mall (MPS) with M. Grande (Aberystwyth University, Aberystwyth , UK); C. d'Uston , P. Pinet, S. Chevrel (Université Paul Sabatier, Toulouse, France); Y. Futaana (Institutet for Rymdfysik, Kiruna, Sweden); W. Schmidt (Ilmatieteen Laitos, Finland); J.-L. Josset (Space Exploration Institute, Neuchâtel, Switzerland).

European Participation in Solar-C
submitted to ESA M4 call; not selected
L. Teriaca, W. Curdt, D. Innes, H. Peter, U. Schühle, S. K. Solanki, and T. Wiegelmann with V. Andretta (INAF - Osservatorio Astronomico di Capodimonte, Napoli, Italy) F. Auchere, E. Buchlin, J.-C. Vial (Institut d'Astrophysique Spatiale, Orsay, France); C.M. Brown, G.A. Doschek, C. Korendyke, J.T. Mariska, H.P. Warren (Naval Research Laboratory, Washington DC, USA); G. Cauzzi (INAF - Osservatorio Astrofisico di Arcetri, Florence, Italy); J.L. Culhane, L. Green, L.K. Harra, S. Vargas Dominguez, B. Winter (Mullard Space Science Laboratory, University College London, Dorking, UK); J.M. Davila (NASA - Goddard Space Flight Center, Greenbelt, USA); G. Del Zanna University of Cambridge, UK); and many others.

FARSIDE – A mission to the farside of the Moon
submitted to ESA M4 call; not selected
B. Knapmeyer-Endrun with M. Wieczorek (IPGP - Institut de physique du globe de Paris, Paris, France);D. Mimoun (ISAE - Institut Supérieur de l'Aéronautique et de l'Espace, Toulouse, France); and 32 other coauthors from Belgium, Czech Republic, France, Germany, The Nether-lands, Norway, Poland, Russia, Switzerland, UK and USA.

Fine Structure and Dynamics of Erupting Magnetic Flux Ropes in Low Solar Atmosphere
submitted to NASA; selected
T. Wiegelmann with H. Wang (New Jersey Institute of Technology, Newark, USA) and others.

From solar to stellar magnetic eruptions
submitted to DFG-SFB; not selected
J. Büchner with S. Jeffers (Universität Göttingen).

IAU Commission E1 Working Group "Solar irradiance"
submitted to IAU; selected
N. Krivova and A. Shapiro (MPS) with G. Kopp (LASP, Bolder, CO).

Ion Sinks in the Inner Magnetopshere
submitted to DFG; not selected
E. Kronberg (MPS).

Linking the consequences of micro-turbulence to macro-scales
submitted to DFG-SFB; not selected
J. Büchner with U. Motschmann (TU Braunschweig).

Lunar 27 - PROSPECT Sample Processing and Analysis System (ProSPA)
submitted to ESA; pending
F. Goesmann and O. Roders with S. Barber, M. Leese (The Open University, Milton Keynes, UK).

Physical Properties of Cometary Nuclei Assessed from the Development of 67P CG's Activity
submitted to ISSI; selected
U. Mall with Y. Skorov (TU Braunschweig , Braunschweig, Germany); W. Ip (NCU National Central University, Graduate Institute of Astronomy, Taipei, Taiwan); K. Ekkehard (DLR, Berlin, Germany); N. Thomas (Universität Bern, Bern, Switzerland); U. Keller (TU Braunschweig, Germany).

Plasma Distribution in Space
submitted to ERC; not seleced
E. Kronberg (MPS).

Radial evolution of heliospheric plasma turbulence on fluid-ion-electron triple Scales
submitted to DFG-SFB; not selected
J. Büchner with U. Motschmann (TU Braunschweig).

Spectrometer for Ultraviolet Radiation (SPUR)
submitted to DLR; pending
H. Peter, S. Solanki, P. Barthol, L. Teriaca, and U. Schühle.

The energy transformation, Turbulence and Acceleration in Space Plasmas
submitted to Volkswagenstiftung; selected
E. Kronberg with E. Grigorenko (Space Research Institute, Russian Academy of Sciences, Moscow, Russia); L. Kozak (Kyiv Taras Shevchenko National University, Kyiv, Ukraine).

The origin of 3He-rich solar energetic particles
submitted to DFG; selected
R. Bucik and D. Innes

The origin of impulsive solar flare energetic ions (SASPRO SOLION 1235/02/01)
submitted to Slovak Academy of Sciences; not selected

R. Bucik

The origin of impulsive solar flare energetic ions (SASPRO SOLION 1647/03/01)
submitted to Slovak Academy of Sciences;pending
R. Bucik

The Solar Interface Region
submitted to DFG; selected
T. Wiegelmann

Towards a consistent Solar Spectral Irradiance record from SORCE and SOLSPEC
submitted to NASA – Roses 2015; pending
A. Shapiro and N. Krivova with Greg Kopp (Laboratory for Atmospheric and Space Physics, University of Colorado, USA).

UNLIT – The unknown lithosphere: structure, boundaries (MLD, LAB) and dynamics
International Lithosphere Program proposal; not selected
B. Knapmeyer-Endrun (MPS) with J. Plomerova (Institute of Geophysics of the Academy of Sciences, Prague, Czech Republic); U. Achauer (Université de Strasbourg, France); J. C. Afonso (Macquarie University, Sydney, Australia); T. Becker (University of Southern California, LA, USA); A. Jones (Dublin Institute of Advanced Studies, Ireland); V. Maupin (University of Oslo, Norway); E. Kissling, G. Heteny (ETH Zürich, Switzerland); R. Kind (GFZ Potsdam, Germany); E. Kozlovskaya (University of Oulu, Finland); M. Wilde-Piorko (University of Warsaw, Poland); T. Eken (Istanbul Technical University, Turkey).

2.2 Anträge auf Beobachtungszeit / *Observing time proposals*

67P/Churyumov-Gerasimenko: a Rosetta Stone for polarimetric diagnostics
submitted to ESO; selected
H. Böhnhardt with S. Bagnulo, G. Borisov, A. Stinson (Armagh Observatory, Armagh, UK); G. P. Tozzi (INAF, Florence, Italy); L. Kolokolova (University of Maryland, College Park, USA); A.-C. Levasseur- Regourd (LATMOS, Paris, France); C. Snodgrass (Open University, Milton Keynes, UK).

Are the Detached Disk Objects evolved or primordial?
submitted to ESO; not selected
H. Böhnhardt with O. Hainaut (ESO, Garching, Germany), S. Protopapa (University of Maryland, USA).

Disrupting Asteroid P/2012 F5 – Impact or Rotational breakup?
submitted to ESO; selected
J. Agarwal and P. Lacerda with S. Lowry (Kent University, Canterbury, UK); D. Jewitt (UCLA, Los Angeles, USA).

Expect the unexpected - rapid reaction to an exploding comet
submitted to ESO; selected
H. Böhnhardt and C. Tubiana with C. Snodgrass (Open University , Milton Keynes, UK); A. Guilbert-Lepoutre (CNS,Paris, France); E. Jehin, C. Opitom, J. Manfroid, D. Hutsemékers (Universiteé de Liège, Belgium); S. Bagnulo, G. Borisov, A. Stinson (Armagh Observatory, Armagh, UK); G. P. Tozzi (INAF, Florence, Italy); P. Rousselot (University of Franche-Comté, Observatoire de Besançon, France); S. Besse, R. Schulz (European Space Agency, Noordwijk, The Netherlands); B . Yang, C. Dumas (ESO, Santiago de Chile, Chile); A. Fitzsimmons (Queen´s University, Belfast, UK); O. Hainaut (ESO, Garching, Germany); S. Lowry (University of Kent, Canterbury, UK); L. Kolokolova (University of Maryland, College Park, USA); A.-C. Levasseur- Regourd (LATMOS, Paris, France); G. H. Jones (University College London, UK).

Exploring the intriguing thermal emission of a TNO system: Hints for Dwarf Planets Formation and Evolution

submitted to ALMA; not selected

M. Rengel, Paul Hartogh and Esa Vilenius with K. Csaba, A. Pal (Konkoly Observatory, Budapest, Hungary), T. Mueller (MPE, Garching, Germany); E. Lellouch (LESIA, Observatoire de Paris, Meudon, France); P. Santos-Sanz (Instituto de Astrofísica de Andalucía, Granada, Spain); M. Mommert (University of Arizona, Tucson, USA); A. Juhasz (University of Cambridge, Cambridge, UK), R. Kneissl (ALMA, Santiago, Chile).

Investigating the composition of Titan's stratosphere with SOFIA: time variability & intriguing unidentified signatures

submitted to SOFIA; selected

M. Rengel and Paul Hartogh with William Reach (SOFIA/USRA, Moffett Field, USA).

Multi-wavelength observations of limb spicules

submitted to DST; selected

D. Fabbien with Christian Beck (NSO, Boulder, USA), team composed of a total of 9 scientists worldwide.

Nansen II - Cluster-EISCAT coordinated ion outflow measurements

submitted to EISCAT; selected

S. Haaland with L. Maes (Belgian Institute of Aeronomy, Brussels, Belgium); L. Baddeley (UNIS, Longyearbyen, Svalbard, Norway).

Organic ices in the coma of comet 9P/Tempel 1? A test 10 years after.

submitted to ESO; not selected

H.Böhnhardt with G. P. Tozzi, S. Faggi (INAF, Florence, Italy); O. Hainaut (ESO Garching, Germany), L. Lara (CSIC, Granada, Spain), H. Kaeufl, L. Kolokolova, M. Kelley, S. Protopapa (University of Maryland, College Park, USA).

QS Magnetism: Observations with GREGOR/GRIS

submitted to EAST; selected

A. Lagg with SLAM team (MPS), GREGOR Team at KIS (Freiburg), AIP (Potsdam) and IAC (Canaries).

The absolute solar wavelength of the TiI 5714 line

submitted to EAST; selected

H.-P. Dörr with W. Schmidt, N. Bello Gonzalez, R. Schlichenmaier (Kiepenheuer-Institute für Sonnenphysik, Freiburg, Germany).

The interplay of sublimation and Fast Rotation in Active Asteroid 288P/300163

submitted to ESO; not selected

J. Agarwal and P. Lacerda with D. Jewitt (UCLA, Los Angeles, USA).

The mystery of episodic activity in multi-tailed asteroid 311P/PANSTARRS

submitted to ESO; partially selected

J. Agarwal and P. Lacerda with D. Jewitt (UCLA, Los Angeles, USA).

The sensitivity of the oxygen lines at 557 nm and 630 nm and associated solar chemical abundances to magnetic fields

submitted to EAST; selected

H.-P. Dörr and D. Fabbian with F. Moreno Insertis (Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain); W. Schmidt, R. Schlichenmaier (Kiepenheuer-Institutefür Sonnenphysik, Freiburg, Germany).

2.3 Anträge auf Rechenzeit / *Computing time proposals*

Coronal ejections from self-consistent MHD simulations
submitted to CSC, Finland; selected
J. Warnecke with P. J. Käpylä (Helsinki University, Finland).

NeoCon - New paradigm of Stellar Convection
submitted to CSC, Finland; selected
J. Warnecke with P. J. Käpylä, M. J. Käpylä, M. Rheinhardt (Aalto University, Finland); A. Brandenburg (Nordita, Stockholm, Sweden / NCAR, Boulder, USA); R. Arlt (Leibniz Institute for Astrophysics, Potsdam, Germany).

3. Publikationen / *Publications*

3.1 Referierte Publikationen / *Refereed publications*

(fett gedruckt: zu MPS gehörig */bold: affiliated to MPS*)

S. Alam, F. D. Albareti, C. Allende Prieto, F. Anders, S. F. Anderson, T. Anderton, B. H. Andrews, E. Armengaud, É. Aubourg, S. Bailey, ..., **S. Hekker**, et al., The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III, Astrophys. J. Suppl., 219, 12, doi:10.1088/0067-0049/219/1/12, 2015.

K. Altwegg, H. Balsiger, A. Bar-Nun, J. J. Berthelier, A. Bieler, P. Bochsler, C. Briois, U. Calmonte, M. Combi, J. De Keyser, P. Eberhardt, B. Fiethe, S. Fuselier, S. Gasc, T. I. Gombosi, K. C. Hansen, M. Haessig, A. Jaeckel, E. Kopp, **A. Korth**, L. Leroy, **U. Mall**, B. Marty, O. Mousis, E. Neefs, T. Owen, H. Reme, M. Rubin, T. Semon, C.-Y. Tzou, H. Waite, and P. Wurz, 67P/Churyumov-Gerasimenko, a Jupiter family comet with a high D/H ratio, Science, 347(6220), 1261952, doi:10.1126/science.1261952, 2015.

M. Ammler-von Eiff, D. Sebastian, E. W. Guenther, B. Stecklum, and J. Cabrera, The power of low-resolution spectroscopy: On the spectral classification of planet candidates in the ground-based CoRoT follow-up, Astron. Nachr., 336, 134–144, doi:10.1002/asna.201412153, 2015.

V. Anastassopoulos, M. Arik, S. Aune, K. Barth, A. Belov, H. Braeuninger, G. Cantatore, J. M. Carmona, S. A. Cetin, F. Christensen, J. I. Collar, T. Dafni, M. Davenport, K. Desch, A. Dermenev, C. Eleftheriadis, G. Fanourakis, E. Ferrer-Ribas, P. Friedrich, J. Galan, J. A. Garcia, A. Gardikiotis, J. G. Garza, E. N. Gazis, T. Geralis, I. Giomataris, C. Hailey, F. Haug, M. D. Hasinoff, D. H. H. Hoffmann, F. J. Iguaz, I. G. Irastorza, J. Jacoby, A. Jakobsen, K. Jakovcic, J. Kaminski, M. Karuza, M. Kavuk, M. Krcmar, C. Krieger, A. Krueger, B. Lakic, J. M. Laurent, A. Liolios, A. Ljubicic, G. Luzon, S. Neff, I. Ortega, T. Papaevangelou, M. J. Pivovaroff, G. Raffelt, H. Riege, M. Rosu, J. Ruz, I. Savvidis, **S. K. Solanki**, T. Vafeiadis, J. A. Villar, J. K. Vogel, S. C. Yildiz, K. Zioutas, P. Brax, I. Lavrentyev, A. Upadhye, and The CAST Collaboration, Search for chameleons with CAST, Phys. Lett. B, 749, 172–180, doi:10.1016/j.physletb.2015.07.049, 2015.

M. André, **K. Li**, and A. I. Eriksson, Outflow of low-energy ions and the solar cycle, J. Geophys. Res., 120, 1072–1085, doi:10.1002/2014JA020714, 2015.

G. C. Angelou, V. D'Orazi, T. N. Constantino, R. P. Church, R. J. Stancliffe, and J. C. Lattanzio, Diagnostics of stellar modelling from spectroscopy and photometry of globular clusters, Mon. Not. Roy. Astron. Soc., 450(3), 2423–2440, doi:10.1093/mnras/stv770, 2015.

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J. Zhang, B. Zhang, T. Li, S. Yang, Y. Zhang, **L. Li, F. Chen**, and **H. Peter**, Coronal Heating By the Interaction between Emerging Active Regions and the Quiet Sun Observed By the Solar Dynamics Observatory, Astrophys. J., 799, L27, doi:10.1088/2041-8205/799/2/L27, 2015.

Q. M. Zhang, Z. J. Ning, Y. Guo, T. H. Zhou, X. Cheng, H. S. Ji, **L. Feng,** and **T. Wiegelmann**, Multiwavelength Observations of a Partially Eruptive Filament on 2011 September 8, Astrophys. J., 805, 4, doi:10.1088/0004-637X/805/1/4, 2015.

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3.2 Doktorarbeiten / *PhD theses*

Raphael Attie, The relationship between supergranulation flows, magnetic field evolution and network flares, Technische Universität Braunschweig

Jack Carlyle, Mass and Magnetic Field of Eruptive Solar Filaments, University College London, U. K.

Feng Chen, Coronal dynamics driven by magnetic flux emergence, Georg-August Universität Göttingen, Germany

Julia Chifu, Multi-spacecraft analysis of the solar coronal plasma, Technische Universität Braunschweig

Jakob Deller, Hyper-Velocity Impacts on Rubble Pile Asteroids, University of Kent, U. K.

Jan Langfellner, Measuring vortical flows in the solar interior, Georg-August Universität Göttingen

Björn Löptien, Data Compression for Helioseismology, Georg-August Universität Göttingen

Nafiseh Masoumzadeh Jouzdani, Surface Reflectance Analysis of small bodies on the different scales, Georg-August Universität Göttingen

Patricio Munoz Sepulveda, Fully kinetic PiC simulations of current sheet instabilities for the Solar corona, Georg-August Universität Göttingen

Emanuele Papini, Simulating the signature of starspots in stellar oscillations, Georg-August Universität Göttingen

Farhad Shakeri, Cycle-related solar VUV variability, Georg-August Universität Göttingen

Guneshwar Singh Thangjam, Mineralogy and geology of (4) Vesta from Dawn Framing Camera, Technische Universität Clausthal

Rakesh Yadav, Effect of Density Stratification on Dynamos in Gas Planets and Low-Mass Stars, Georg-August Universität Göttingen

4. Vorträge und Poster / *Talks and posters*

(fett gedruckt: zu MPS gehörig */bold: affiliated to MPS*)
(unterstrichen: Votragende(r) / *underline: presenter*)

W. Arnold, T. Albin, C. Faber, H.-H. Fischer, A. Flandes, A. Hirn, M. Knapmeyer, **H. Krüger**, **A. Loose**, D. Möhlmann, K. J. Seidensticker, and K. Thiel, Mechanical Properties of Comet 67P/Churyumov-Gerasimenko measured by CASSE and DIM on board Rosetta's lander Philae, 7th International Symposium on NDT in Aerospace, Bremen, Nov 16-18, 2015 (invited talk).

E. Asvestari, I. G. Usoskin, **N. A. Krivova**, and **R. H. Cameron**, Semi-empirical long-term reconstruction of the heliospheric parameters validated by cosmogenic radionuclide records, Coimbra Solar Physics Meeting CSPM-2015: Ground-based Solar Observations in the Space Instrumentation Era, Coimbra, Portugal, Oct 5-9, 2015 (poster).

H.-U. Auster, P. Heinisch, I. Apathy, G. Berghofer, K.-H. Fornacon, **M. Hilchenbach**, C. Koenders, A. Remizov, I. Richter, and **K.-H. Glassmeier**, ROMAP Magnetic Field Measurements in the Surface Boundary Layer of the Nucleus of 67P/Churyumov-Gerasimenko, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

E. Avrett, H. Tian, E. Landi, **W. Curdt**, and J.-P. Wuelser, Semiempirical modeling of sunspots, IRIS-4 Workshop, Boulder, USA, May 18-22, 2015 (poster).

W. T. Ball, **K. L. Yeo**, **N. A. Krivova**, **S. K. Solanki**, Y. C. Unruh, and J. Morrill, Evaluation of solar irradiance models for climate studies, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

A. Bardyn, **M. Hilchenbach**, C. Briois, **J. Kissel**, A. Koch, Y. Langevin, R. Schulz, J. Silen, K. Altwegg, L. Colangeli, H. Cottin, C. Engrand, **H. Fischer**, A. Glasmachers, E. Grün, G. Haerendel, H. Henkel, H. Höfner, K. Hornung, E. K. Jessberger, H. Lehto, K. Lehto, F. Raulin, L. Le Roy, J. Rynö, W. Steiger, T. Stephan, L. Thirkell, R. Thomas, K. Torkar, K. Varmuza, K.-P. Wanczek, N. Altobelli, D. Baklouti, N. Fray**, P. Lacerda**, N. Ligier, Z. Lin, P. Martin, **S. Merouane**, F.-R. Orthous-Daunay, **J. Paquette**, C. Revillet, S. Siljeström, **O. Stenzel**, and B. Zaprudin, COSIMA - In-situ dust particles measurements in the inner coma of comet 67P/Churyumov-Gerasimenko, American Astronomical Society, DPS meeting #47, Washington, DC, United States, Nov 8-13, 2015.

G. Becker and **B. Knapmeyer-Endrun**, Moho depth from single-station seismic noise autocorrelations in preparation of the InSight SEIS installation on Mars, 41. Sitzung der AG Seismologie, Wildbad Kreuth, Sep 15-17, 2015 (poster).

B. Beeck, MHD simulations of sunspots and starspots with MURaM, Nordita Workshop on Sunspot formation: theory, simulations and observations, Stockholm, Sweden, Mar 9-13, 2015 (oral).

J.-L. Bertaux, I. Khatunstsev, A. Hauchecorne, **W. Markiewicz**, E. Marcq, S. Lebonnois, M. Patsaeva, and A. Turin, Geographic distribution of zonal wind and UV albedo at cloud top level from VMC camera on Venus Express: Influence of Venus topography through stationary gravity waves vertical propagation, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

H. Boehnhardt, Die Rosetta-Mission und der schmutzige Schneeball mit dem unaussprechlichen Namen - Fragen und Antworten zur Kometenforschung heute, Öffentlicher Vortrag, Bad Pyrmont, Jun 4, 2015 (oral).

H. Boehnhardt, Pluto & Co: Der Asteroiden-Gürtel am Rande des Planetensystems, Einweihung Kuiper Belt-Tafel des Göttinger Planetenwegs, Göttingen, Jul 17, 2015 (oral).

H. Boehnhardt, Rosetta - Die Kometenmission der ESA, Ludwig-Bölköw-Technologiepreis Mecklenburg-Vorpommern, Preisverleihunh IHK Schwerin, Schwerin, Nov 4, 2015 (oral).

H. Boehnhardt, Vom Dschungel in den Weltraum - Die lange Reise der Sonde Rosetta bis zur spannenden Landung von Philae auf dem Kometen Tschury, Kinder-Uni Göttingen, Göttingen, Jun 3, 2015 (oral).

H. Boehnhardt, B. Chares, **K. Gräbig**, and **M. Strowitzki**, Rosetta - Vom Dschungel in den Weltraum - Seminar, Kinder-Uni, Göttingen, Jul 3, 2015 (oral).

S. Bolton, **P. Hartogh,** A. Ingersoll, and B. Mc Kinnon, Detecting Water Eruptions on Europa, 12th Annual Meeting Asia Oceania Geosciences Society, Singapore, Aug 2-7, 2015 (oral)

N. V. Bondarenko, A. T. Basilevsky, **E. V. Shalygin**, and **W. J. Markiewicz**, Microwave Properties and the 1-Micron Emissivity of Crater-Related Radar-Dark Parabolas and Other Surface Features in Five Areas of Venus, 46th Lunar and Planetary Science Conference, The Woodlands, Texas, USA, Mar 16-20, 2015 (poster).

A. B. Bossmann, **J. Wicht**, **T. Gastine**, and **U. R. Christensen**, Magnetic field morphology of the ice giants linked to their internal structure, 5th Meeting of the DFG-SPP Planetary Magnetism, Noerdlingen, Germany, Mar 10-13, 2015 (poster).

C. Briois, D. Baklouti, A. Bardyn, H. Cottin, C. Engrand, N. Fray, **M. Hilchenbach**, K. Hornung, **J. Kissel**, Y. Langevin, R. Schulz, J. Silén, S. Siljeström, F.-R. Orthous-Daunay, J. Rynö, and A. Koch, The composition of 67P/Churyumov-Gerasimenko cometary dust as seen by COSIMA on Board Rosetta, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

J. Büchner, Collisionless magnetic reconnection in the solar corona, Colloquium Instituto Superior Técnico, Lisboa, Portugal, Apr10, 2015 (invited talk).

J. Büchner, **P. Munoz**, and **X. Zhou**, Electron Energization in the Solar Corona in Current Concentrations and by Magnetic Reconnection, 14th Annual International Astrophysics Conference, Tampa, USA, Apr 23, 2015 (invited talk).

J. Büchner and **J. Skala**, Models and Data Driven Simulation of Solar Eruptions, Turbulence, magnetic fields and self organization in laboratory and astrophysical plasmas, Princeton, New Jersey, USA, Mar 10, 2015 (invited talk).

R. Bucik, SIT/STEREO report, STEREO/SOHO team meeting, UAH, Alcala de Henares, Spain, Mar 23-27, 2015 (oral).

R. Bucik, STEREOscopic observations of energetic particle sources in the inner heliosphere, NASA/Goddard Space Flight Center Seminar, Greenbelt, MD, USA, Jun 8, 2015 (invited talk).

R. Bucik, The origin of impulsive solar flare energetic ions, Meeting of the Evaluation Committee of the Marie Curie Program SASPRO, Office of SAS, Bratislava, Slovakia, Jun 9, 2015 (invited talk).

R. Bucik and **D. E. Innes**, 3He-rich SEP sources in SPICE on Solar Orbiter, SPICE/SWA/EPD Joint Science Team Meeting, Institut d'Astrophysique Spatiale, Orsay, France, Nov 3-5, 2015, solicited (oral).

R. Bucik, **D. E. Innes**, **N.-H. Chen**, G. M. Mason, R. Gomez-Herrero, and M. E. Wiedenbeck, Long-lived energetic ion sources on the Sun, STEREO/SOHO team meeting, UAH, Alcala de Henares, Spain, Mar 23-27, 2015 (oral).

R. Bucik, **D. E. Innes**, **N.-H. Chen**, G. M. Mason, R. Gomez-Herrero, and M. E. Wiedenbeck, Long-lived energetic particle source regions on the Sun, 14th Annual International Astrophysics Conference, Tampa Bay, Florida, USA, Apr 20-24, 2015 (invited talk).

R. Bucik, **D. E. Innes**, **L. Guo**, G. M. Mason, and M. E. Wiedenbeck, Observations of a blast EUV wave in 3He-rich solar energetic particle sources, 14th Annual International Astrophysics Conference, Tampa Bay, Florida, USA, Apr 20-24, 2015 (poster).

R. H. Cameron and **M. Schüssler**, The Babcock-Leighton solar dynamo, SOLARNET III / HELAS VII / SpaceInn Conference "The Sun, the stars, and solar-stellar relations", Freiburg, Germany, Aug 31 - Sep 4, 2015 (oral).

T. Cavalié, V. Hue, **P. Hartogh**, E. Lellouch, T. Cassidy, M. Dobrijevic, and **C. Jarchow**, What is Saturn's H2O External Source?, 12th Annual Meeting Asia Oceania Geosciences Society, Singapore, Aug 2-7, 2015 (oral).

T. Cavalié, R. Moreno, E. Lellouch, **P. Hartogh**, **C. Jarchow**, O. Venot, F. Hersant, F. Selsis, G. Orton, T. Encrenaz, and L. Fletcher, First submillimeter observation of CO in the stratosphere of Uranus with Herschel-HIFI, European Planetary Science Congress 2013, London, UK, Sep 8-13, 2015 (oral).

G. Cessateur, W. Werner Schmutz, and **A. Shapiro**, The solar irradiance: observations and modelling, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015.

T. Chatzistergos, I. Ermolli, **S. K. Solanki**, and **N. A. Krivova**, Exploiting historical Ca II K spectroheliogram archives: preliminary results from four archives, Coimbra Solar Physics Meeting, Coimbra, Oct 5-9, 2015 (oral).

F. Chen and **H. Peter**, Using coronal seismology to estimate the magnetic field strength in a realistic coronal model, 2nd International Sino-German Symposium of Solar Physics: Multi Waveband Observations and Modeling of Solar Activity, Bad Honnef, Aug 31-Sep 4, 2015 (oral).

F. Chen and **H. Peter**, Using coronal seismology to estimate the magnetic field strength in a realistic coronal model, Hinode 9 Science Meeting, Belfast, Sep 14-18, 2015 (poster).

L. P. Chitta, H**. Peter**, and P. R. Young, A closer look at the footpoints of coronal loops rooted in a sunspot umbra, Hinode 9 Science Meeting, Queens University Belfast, Sep 14-18, 2015 (oral).

U. R. Christensen, Das Innere der Planeten und ihre Magnetfelder, Volkshochschule Hildesheim, Hildesheim, Nov 23, 2015 (oral).

U. R. Christensen, Des Kometen Kern: Erste Ergebnisse der Rosetta-Mission, Reihe Faszinierendes Weltall, Göttingen, Mar 10, 2015 (oral).

U. R. Christensen, Dynamos - the planetary-stellar connection, The dynamo effect in astrophysical and laboratory plasmas, Princeton, Dec 6-9, 2015 (oral).

U. R. Christensen, Planetary dynamos with stably stratified layers, GDR Dynamo Discussion Meeting, Bangalore, Jun 8-12, 2015 (oral).

U. R. Christensen, Rosetta - unveiling of a comet, XLAB Science Camp, Göttingen, Jul 18, 2015 (oral).

U. R. Christensen, Saturns magnetic field and dynamo, AOGS Meeting, Singapore, Aug 2-7, 2015 (oral).

H. Cottin, K. Hadraoui, A. Bardyn, L. LeRoy, N. Fray, C. Briois, L. Thirkell, **S. Merouane**, K. Hornung, Y. Langevin, and **M. Hilchenbach**, Scenarios for distributed sources of formaldehyde in the atmosphere of comet 67P/Churyumov-Gerasimenko, European Planetary Science Congress, Nantes, France, Sep 27 - Oct 2, 2015 (oral).

H. Cottin, **M. Hilchenbach**, N. Fray, A. Bardyn, C. Briois, D. Baklouti, C. Engrand, Y. Langevin, N. Ligier, L. LeRoy, **S. Merouane**, F.-R. OrthousDaunay, L. Thirkell, **J. Kissel**, A. Koch, R. Schulz, J. Ryno, and J. Silen, COSIMA - Dust Particles in the Inner Coma of Comet 67P/Churyumov-Gerasimenko prior to perihelion passage, European Planetary Science Congress, Nantes, France, Sep 27 - Oct 2, 2015 (oral).

W. Curdt, Chromospheric dynamics as observed in Lyman-α, ISSI team meeting 'Solar Heliospheric Lyman Alpha Profile Effects', Bern, Apr 13-15, 2015 (oral).

W. Curdt, B. Fleck, J.-P. Olive, and T. van Overbeek, Solar and galactic cosmic rays observed by SOHO, Triennial Earth-Sun Summit (TESS), Indianapolis, Apr 27-30, 2015 (poster).

M. de Val-Borro, D. Bockelée-Morvan, E. Jehin, **P. Hartogh**, C. Opitom, S. Szutowicz, N. Biver, J. Crovisier, D. C. Lis, **L. Rezac**, Th. de Graauw, D. Hutsemékers, **C. Jarchow**, M. R. Kidger, M. Küppers, L. M. Lara, J. Manfroid, **M. Rengel**, B. M. Swinyard, D. Teyssier, B. Vandenbussche, and C. Waelkens, Distant activity of comet C/2006 W3 (Christensen) as observed with Herschel, Ground and space observatories: a joint venture to planetary science, Santiago, Chile, Mar 2-5, 2015.

H.-P. Doerr, Absolute velocity calibration of Sunrise/IMaX data, 9th Sunrise Science Meeting, Max-Planck-Institute for Solar System Research, Göttingen, Germany, Sep 28-29, 2015 (oral).

H.-P. Doerr, Basic calibration of spectroscopic Data, 1st CASSDA Summer School, Observatorio del Teide, Tenerife, Spain, Apr 20-25, 2015 (oral)

H.-P. Doerr, Can we still learn something from spatially unresolved high-precision spectroscopy of the solar photosphere?, Colloquium, Kiepenheuer-Institut für Sonnenphysik, Freiburg, Germany, Jun 12, 2015 (oral).

H.-P. Doerr, What you should know about imaging detectors, 1st CASSDA Summer School, Observatorio del Teide, Tenerife, Spain, Apr 20-25, 2015 (oral) .

H.-P. Doerr, W. Schmidt, T. J. Kentischer, and R. Schlichenmaier, A new instrument for high-precision spectroscopy with extremely accurate wavelength calibration, Coimbra Solar Physics Meeting, Coimbra, Portugal, Oct 5-9, 2015 (oral).

E. Dubinin, **M. Fraenz**, D. Andrews, O. Witasse, and S. Barabash, Ionosphere of Mars as seen by Mars Express. Effect of crustal fields, European Planetary Science Congress, Nantes, France, Sep 27 - Oct 2, 2015 (poster).

E. Dubinin, **M. Fraenz**, C. Mazelle, and S. Barabash, Coherent large-amplitude waves in the Martian plasma environment, 1st URSI Atlantic Radio Science Conference, Gran Canaria, Spain, May 18-22, 2015 (oral).

T. L. Duvall Jr., Flows in the convection zone with particular relevant to the dynamo, NASA LWS Workshop on Solar Dynamo Frontiers: Helioseismology, 3D Modeling, and Data Assimilation, High Altitude Observatory, Boulder, CO, USA, Jun 9-12, 2015 (oral).

T. L. Duvall Jr., Flows in the convection zone with potential relevance to the sunspot problem, Sunspot formation: theory, simulations and observations, Nordita, Stockholm, Sweden, Mar 9-13, 2015 (oral).

T. L. Duvall Jr., Improving seismic measurements of convective flows, Advances in Seismology: a Dialogue Across Disciplines, TIFR, Mumbai, India, Dec 7-11, 2015 (oral).

C. Engrand, J. Duprat, N. Bardin, E. Dartois, H. Leroux, E. Quirico, K. Benzerara, L. Rémusat, E. Dobrică, L. Delauche, J. Bradley, H. Ishii, **M. Hilchenbach**, and T. COSIMA, The asteroid-comet continuum from laboratory and space analyses of comet samples and micrometeorites, IAU General Assembly Meeting, Honolulu, Hawai, USA, Aug 3-14, 2015 (oral).

A. Feller, Solar polarimetry and the need for fast and low-noise detectors, 19th International Workshop on DEPFET Detectors and Applications, Seeon, Germany, May 10, 2015 (oral).

A. Feller, Solar polarimetry and the need for fast and low-noise detectors, DESY Joint Instrumentation Seminar, Hamburg, Oct 2, 2015 (oral).

D. Fournier, T. Hohage, and **L. Gizon**, Parameter identification for the acoustic wave equation in helioseismology, The 12th International Conference on Mathematical and Numerical Aspects of Wave Propagation (WAVES 2015), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, Jul 20-24, 2015 (oral).

M. Fraenz, **E. Dubinin**, D. Andrews, H. Nilsson, S. Barabash, and A. Fedorov, Cold Ion Escape from the Martian Ionosphere, European Planetary Science Congress, Nantes, France, Sep 27 - Oct 02, 2015 (oral).

M. Fraenz, **E. Dubinin**, D. Andrews, H. Nilsson, S. Barabash, and A. Fedorov, Cold Ion Escape from the Martian Ionosphere - 2007-2014, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

A. Gabrielli, M. M. Castronuovo, S. Cesare, D. Morea, M. Montabone, L. Teriacam, **U. Schühle**, **P. Barthol**, and **S. Solanki**, METIS Coronagraph A System Engineering Approach, 66th International Astronautical Congress, Jerusalem, Israel, Oct 12-16, 2015 (oral).

L. Gizon, Introducing the Center for Space Science at NYUAD, Space Science Seminar Series, Abu Dhabi, United Arab Emirates, Dec 16, 2015 (invited talk).

L. Gizon, Introduction to the partner group program, Kick-off Workshop on "Advances in Seismology: a Dialogue Across Disciplines", TIFR, Mumbai, India, Dec 7-11, 2015 (oral).

L. Gizon, Oblateness of a slowly rotating star from asteroseismology, Kick-off Workshop on "Advances in Seismology: a Dialogue Across Disciplines", TIFR, Mumbai, India, Dec 7-11, 2015 (oral).

L. Gizon, Perspectives in Helioseismology, NASA LWS Workshop on Solar Dynamo Frontiers: Helioseismology, 3D Modeling, and Data Assimilation, National Center for Atmospheric Research, Boulder, Colorado, USA, Jun 9-12, 2015 (invited talk).

L. Gizon, Seismic diagnostics of rotation and magnetic activity, 2nd SOLARNET Meeting: Solar and stellar magnetic activity, Palermo, Italy, Feb 2-5, 2015 (invited talk).

L. Gizon, Seismology of the Sun, Greifswalder Physikalisches Kolloquium, Max-Planck-Institut für Plasmaphysik, Greifswald, Germany, Jul 9, 2015 (invited talk).

L. Gizon, Seismology of the Sun and Stars, MPG Heads of Partner Group Meeting 2015, Indian Institute of Technology Madras (IIT Madras), Chennai, India, Mar 12-13, 2015 (keynote lecture).

L. Gizon, H. Barucq, M. Durufle, **A. C. Birch**, J. Chabassier, D. Fournier, **C. Hanson**, and **M. Leguèbe**, Solving the forward problem of helioseismology in the frequency domain, The 12th International Conference on Mathematical and Numerical Aspects of Wave Propagation (WAVES 2015), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, Jul 20-24, 2015 (oral).

G. R. Gladstone, S. A. Stern, H. A. Weaver, L. A. Young, K. A. Ennico, C. B. Olkin, A. F. Cheng, T. K. Greathouse, D. P. Hinson, J. A. Kammer, I. R. Linscott, A. H. Parker, J. Wm. Parker, K. D. Retherford, E. Schindhelm, K. N. Singer, A. J. Steffl, D. F. Strobel, M. E. Summers, C. C. C. Tsang, G. L. Tyler, M. H. Versteeg, W. W. Woods, N. Cunningham, and **W. Curdt**, New Horizons Observations of the Atmospheres of Pluto and Charon, 47th Annual Meeting of the AAS Division for Planetary Sciences, Washington DC, Nov 8-13, 2015 (oral).

M. Grande, **N. Krupp**, and C. Paranicas, Evolution of the Icy Surface of Europa, 12th Annual Meeting of AOGS, Singapore, Aug 2-7, 2015 (oral).

E. Guggenberger, From RR Lyrae stars to solar like oscillators, MPIA Kolloquium, Heidelberg, Sep 4, 2015 (oral).

E. Guggenberger, T. G. Barnes, and K. Kolenberg, New accurate systemic radial velocities of suspected RR Lyrae binary stars, High precision studies of RR Lyrae stars: from dynamical phenomena to mapping the galactic structure, Visegrad, Hungary, Oct 19-22, 2015 (oral).

E. Guggenberger, **S. Hekker**, and S. Basu, Towards an improvement of the scaling relations, SOLARNET III / HELAS VII / SpaceInn Conference "The Sun, the stars, and solar-stellar relations", Freiburg, Aug 31-Sep 4, 2015 (oral).

E. Guggenberger, **S. Hekker**, S. Basu, **G. Angelou**, and **N. Themessl**, Towards an improvement of the scaling relations, The KASC8/TASC1 Workshop Space Asteroseismology: The next generation, Aarhus, Denmark, Jun 15-19, 2015 (poster).

S. Haaland, Cold Ion Outflow from the Polar Cap - a tutorial (Invited plenary talk), GEM Workshop, Snowmass, CO, USA, Jun 14-19, 2015 (oral).

S. Haaland, Estimation of cold plasma outflow during geomagnetic storms (Invited talk), AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015 (oral).

S. Haaland, Inferring vertical plasma motion from SuperDARN?, SuperDARN Workshop,, Leicester, Jun 1 - 5, 2015 (oral).

S. Haaland, M. Andre, L. Baddeley, A. Barekat, R. Chappell, V. Eccles, A. Eriksson, C. Johnsen, K. Li, B. Lybekk, L. Maes, A. Pedersen, and D. W. R. Schunk, Cluster observations of cold ion outflow during the GEM storms (Invited talk), GEM Workshop, Snowmass, CO, USA, Jun 14-19, 2015.

S. Haaland, L. Baddeley, and L. Maes, Using EISCAT vertical velocities to assess mechanisms for ion outflow, EISCAT Symposium and 42AM, Hermanus, Sep 14-18, 2015 (oral).

S. Haaland, M. Foerster, K. Laundal, K. McKracken, L. Maes, B. Lybekk, and A. Pedersen, North-south asymmetries in magnetospheric and ionospheric plasma circulation, AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015 (invited talk).

S. Haaland, H. Hasegawa, M. Dunlop, R. Fear, B. Walsh, J. DeKeyser, B. Sonnerup, and G. Paschmann, What did we learn from Cluster observations at the magnetopause?, Cluster 15th and Double Star 10th anniversary workshop, Venice, Oct 12-16, 2015 (invited talk).

S. Haaland, J. Reistad, P. Tenfjord, L. Maes, C. Anekallu, N. Dorville, and J. DeKeyser, The terrestrial magnetopause - an asymmetric boundary, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015.

J.-P. Halain, A. Mazzoli, **S. Meining**, P. Rochus, E. Renotte, F. Auchère, **U. Schühle**, F. Delmotte, C. Dumesnil, A. Philippon, R. Mercier, and A. Hermans, The Extreme Ultraviolet Imager of Solar Orbiter: Optical Design and Alignment Scheme, Solar Physics and Space Instrumentation VI, San Diego, CA, USA, Aug 9-10, 2015 (oral).

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P. Hartogh, Spectroscopy of solar system objects, "High-Resolution Submillimeter Spectroscopy of the Interstellar Medium and Star Forming Regions From Herschel to ALMA and Beyond", Zakopane, Poland, May 12-16, 2015 (invited talk).

P. Hartogh, S. Barabash, G. Beaudin, **P. Börner**, D. Bockeleé-Morvan, **W. Boogaerts**, **T. Cavalié**, **U. R. Christensen**, D. Churbanov, **A. Dannenberg**, P. Eriksson, A. Fedorova, **M. Fraenz**, T. Fouchet, U. Frisk, G. Goltsman, K. Hocke, J. Hu, **C. J. Hwang**, C. Janssen, K. Jakob, **C. Jarchow**, **H. John**, J. Ji, Y. Kasai, H. Kim, O. Korablev, A. Korneev, J.-M. Krieg, **N. Krupp**, T. Kuroda, R. Larsson, F. Leblanc, E. Lellouch, Y. Lobanov, **A. Loose**, A. Maestrini, T. Manabe, K. Marchenkov, **A. S. Medvedev**, J. Mendrok, **E. P. Miettinen, S. Montaut**, R. Moreno, O. Mousis, A. Murk, D. Murtagh, T. Nishibori, A. Partakeev, **T. Qureshi**, **S. Sondon**, M. Rataj, **M. Rengel**, **L. Rezac**, A. Rodin, H. Sagawa, **O. Schirmer**, V. Shematovich, S.-C. Shi, A. Shurakov, K. Skup, B. Thomas, J. Treuttel, H. Usui, **J. Wicht**, F. Winkelmann, E. Wirström, and K. Zhang, The Submillimetre Wave Instrument on JUICE, Ground and space observatories: a joint venture to planetary science, Santiago, Chile, Mar 2-5, 2015 (poster).

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P. Hartogh, **C. Jarchow**, and **L. Rezac**, Vertical Profiles of Molecular Oxygen on Mars Derived from Herschel-HIFI Observations, 12th Annual Meeting Asia Oceania Geosciences Society, Singapore, Aug 2-7, 2015 (poster).

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M. Hilchenbach, Dusty Samples Raman Microspectroscopy of Reference Materials for the Rosetta Mission to Comet 67P/Churyumov-Gerasimenko, 12th Confocal Raman Imaging Symposium, Ulm, Sep 28-30, 2015 (oral).

M. Hilchenbach, Neues vom Staub groß und klein, 20. Bad Honnefer Winterseminar "ROSETTA & PHILAE", Bad Honnef, Feb 4-6, 2015 (oral).

M. Hilchenbach, Rosetta COSIMA - Cometary dust analysis next to Comet 67P/Churyumov-Gerasimenko, The 8th meeting on Cosmic Dust, Tokyo, Japan, Aug 17-21, 2015 (oral).

M. Hilchenbach, Rosetta Philae - Impact on a Comet as Envisioned by Multibody Simulations, The 2015 SIMULIA Community Conference, Berlin, May 18-21, 2015 (oral).

M. Hilchenbach, K. Hornung, **J. Kissel**, Y. Langevin, **S. Merouane**, and T. COSIMA, Mechanical properties of cometary dust particles as observed in the inner coma of 67P/Churyumov-Gerasimenko, IAU General Assembly Meeting, Honolulu, Hawai, USA, Aug 3-14, 2015 (oral).

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Werther, F. R. O. N. Fray, A. Bardyn, P. Martin, C. Revillet, S. Siljeström, Z. Lin, **O. Stenzel**, **S. Merouane**, D. Baklouti, B. Zaprudin, and N. Ligier, Rosetta COSIMA - Cometary dust analysis next to Comet67P/ Churyumov-Gerasimenko, Goldschmidt 2015, Prague, CZ, Aug 16-21, 2015 (invited talk).

M. Hofmann, Rosetta: Das Abenteuer geht weiter, Öffentlicher Vortrag im Rahmen der 125-Jahr Feier des Felix-Klein-Gymnasiums, Göttingen, May 29, 2015 (oral).

M. Hofmann, **H. Sierks**, and J. Blum, Small scale impacts as trigger for an avalanche in a low gravity environment, Granular Matter in Low Gravity, Erlangen, Germany, Mar 25-27, 2015 (poster).

M. Hofmann, **J.-B. Vincent**, **C. Güttler**, **C. Tubiana**, **N. Oklay**, **J. Deller**, **S. Höfner**, and **H. Sierks**, Material strength of cliffs and boulders on 67P/Churyumov-Gerasimenko, European Planetary Science Congress, Nantes, Sep 27 - Oct 2, 2015 (oral).

M. Hofstadter, P. von Allmen, S. Lee, N. Biver, D. Bockelee-Morvan, M. Choukroun, S. Gulkis, **P. Hartogh**, M. Janssen, **C. Jarchow**, S. Keihm, E. Lellouch, C. Leyrat, **L. Rezac**, P. Schloerb, J. Crovisier, P. Encrenaz, T. Encrenaz, and W. Ip, Millimeter and Submillimeter Observations of Comet 67P/C-G with the MIRO Instrument, 46th Lunar and Planetary Science Conference, The Woodlands, TX, USA, Mar 16-20, 2015, (oral).

D. Innes, Creation of Energetic Particles, EUI consortium meeting, MSSL, Mar 2 - 5, 2015 (oral).

D. Innes, Observations of Jets, The Dynamic Sun Exploring the Many Facets of Solar Eruptive Events, Potsdam, Oct 26 - 29, 2015 (invited review talk).

D. Innes, Observing the source of energetic particles, SPICE consortium meeting, IAS, Paris, Jun 17 - 18, 2015 (oral).

D. Innes, Small-scale reconnection events on the Sun, 2nd International Sino-German Symposium on Solar Physics - Multi Waveband Observations and Modeling of Solar Activity, Bad Honnef, Aug 31 - Sep 4, 2015 (oral).

D. Innes, Small-scale reconnection on the Sun, Max Planck/Princeton meeeting, Princeton, Mar 9-12, 2015 (oral).

N. Jain and **J. Büchne**r, Electron shear flow instabilities and electromagnetic fluctuations in collisionless magnetic reconnection, Max Planck Princeton Center for Plasma Physics (MPPC) Video Seminar, Göttingen-Princeton-Greifswald-Garching, Jan 8, 2015 (oral).

J. Jiang, **R. H. Cameron**, and **M. Schüssler**, The cause of the weak solar cycle 24, SOLARNET III / HELAS VII / SpaceInn Conference "The Sun, the stars, and solar-stellar relations", Freiburg, Germany, Aug 31 - Sep 4, 2015.

G. H. Jones, K. Altwegg, I. Bertini, A. Bieler, **H. Boehnhardt**, N. Bowles, A. Braukhane, M. T. Capria, A. J. Coates, V. Ciarletti, B. Davidsson, C. Engrand, A. Fitzsimmons, A. Gibbings, O. Hainaut, M. Hallmann, A. Herique, **M. Hilchenbach**, M. Homeister, H. Hsieh, E. Jehin, W. Kofman, L. M. Lara, J. Licandro, S. C. Lowry, F. Moreno, K. Muinonen, M. Paetzold, A. Penttilä, D. Plettmeier, D. Prialnik, U. Marboeuf, F. Marzari, K. Meech, A. Rotundi, A. Smith, **C. Snodgrass**, I. Thomas, and M. Trieloff, Castalia — A Mission to a Main Belt Comet, Conference on Spacecraft Reconnaissance of Asteroid and Comet Interiors, Tempe, Arizona, US, Jan 8-10, 2015 (poster).

P. Kilian, Particle Acceleration at Mercury, 5th PlanetMag Meeting, Nördlingen, Mar 12, 2015.

B. Knapmeyer-Endrun, InSight - a geophysical mission to planet Mars in 2016, Institutskolloquium Institut fuer Erd- und Umweltwissenschaften, Universitaet Potsdam, Dec 7, 2015 (oral).

B. Knapmeyer-Endrun and C. Hammer, New events identified in Apollo 16 lunar seismic data by Hidden Markov model based event detection and classification, 41. Sitzung der AG Seismologie, Wildbad-Kreuth, Sep 15-17, 2015 (oral).

B. Knapmeyer-Endrun and C. Hammer, New seismic events identified in the Apollo lunar data by application of a Hidden Markov Model, EPSC, Nantes, Sep 27-Oct 2, 2015 (oral).

G. Kopp, **N. Krivova**, J. Lean, and **C.-J. Wu**, The Impact of the Revised Sunspot Record on Solar Irradiance Reconstructions, AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015, invited (poster).

A. Kotova, **E. Roussos**, **N. Krupp**, and I. Dandouras, Galactic Cosmic Rays in the inner magnetosphere of Saturn, European Geosciences Union General Assembly, Vienna, Austria, Apr 16, 2015 (oral).

A. Kotova, **E. Roussos**, **N. Krupp**, and I. Dandouras, Galactic Cosmic Rays tracing in the inner magnetosphere of Saturn, MIMI Team Meeting, Atlanta, GE, USA, May 30, 2015 (oral).

A. Kotova, **E. Roussos**, **N. Krupp**, and I. Dandouras, Galactic Cosmic Rays tracing in the inner magnetosphere of Saturn, MOP, Atlanta, GE, USA, Jun 4, 2015 (poster).

N. Krivova, Solare Variabilität und Klima, Bundesweite Lehrerfortbildung zur Astronomie der Wilhelm und Else Heraeus-Stiftung, Heidelberg, Nov 12-14, 2015 (invited talk).

N. A. Krivova, Commission E1: Solar Radiation and Structure, XXIX IAU General Assembly, Business Meeting of Division E, Honolulu, USA, Aug 3 - 14, 2015 (invited talk).

E. Kronberg, S. Gilder, H. Luo, **P. W. Daly**, and E. Grigorenko, Control of oxygen ion acceleration by turbulence, Cluster 15th and Double Star 10th anniversary workshop, Venice, Oct 12-16, 2015 (oral).

E. Kronberg, C. Mouikis, L. Kistler, I. Dandouras, **P. W. Daly**, D. Welling, and E. Grigorenko, On contribution of energetic and heavy ions to the plasma pressure: Storm Sept 27 - Oct 4, 2002, AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015 (poster).

E. A. Kronberg, H. Luo, **P. W. Daly**, E. E. Grigorenko, and B. Klecker, Dynamics of the energetic oxygen and hydrogen ions in the near-Earth plasma sheet, Cluster 15th and Double Star 10th anniversary workshop, Venice, Oct 12-16, 2015 (poster).

H. Krüger, Erste Ergebnisse der Rosetta/Philae-Mission, Frühjahrstagung der Vereinigung der Sternfreunde, Würzburg/Germany, Mar 7, 2015 (oral).

H. Krüger, Kometenforschung heute und was Amateure dazu beitragen können, Herbsttagung der Vereinigung der Sternfreunde e.V., Bochum, Oct 31, 2015 (oral).

H. Krüger, Raumsonde Rosetta — Ein Komet wird entschleiert, Planetarium, Münster, Feb 3, 2015 (oral).

H. Krüger, Raumsonde Rosetta - Ein Komet wird entschleiert, 2. Göttinger Nacht des Wissens, Max-Planck-Institut für Sonnensystemforschung, Jan 17, 2015 (oral).

H. Krüger, Raumsonde Rosetta - Ein Komet wird entschleiert, Vortragsreihe Wissenschaft für Jedermann, Deutsches Museum München, Jan 28, 2015 (oral).

H. Krüger, Raumsonde Rosetta - Ein Komet wird entschleiert, Münster, Planetarium Münster, Feb 3, 2015 (oral).

H. Krüger, Rosetta - Ein Komet wird entschleiert, Bundesweite Lehrerfortbildung, Heidelberg, Haus der Astronomie, Nov 12 - 14, 2015 (oral).

H. Krüger, Rosetta - Rendezvous with a comet, Colloquium of the RTG 1620, Universität Bielefeld, Jan 14, 2015 (oral).

H. Krüger, Rosetta - Rendezvous with a comet, Physikalisches Kolloquium, Universität Oldenburg, Jan 19, 2015 (oral).

H. Krüger, Rosetta/Philae - Erfolgreiche Landung auf einem Kometen, VHS Mosbach/Baden, Binau, Mar 20, 2015 (oral).

H. Krüger, Rosetta/Philae - Erfolgreiche Landung auf einem Kometen, Volkshochschule, Hildesheim, May 06, 2015 (oral).

H. Krüger, Rosetta/Philae - Landung auf einem Kometen, Deutsches Museum, Bonn/Germany, Nov 24, 2015 (oral).

H. Krüger, Rosetta/Philae Dust Measurements at Comet 67P/Churyumov-Gerasimenko, Workshop "Silicates in Space", Heidelberg University, Sep 28 - Oct 1, 2015 (oral).

H. Krüger, The Astrobiological Relevance of Comets, Japanisch-Deutsches Kolloquium, Universität Kiel, Dec 9-10, 2015 (invited talk).

H. Krüger, The Rosetta/Philae Mission to Comet 67P/Churyumov-Gerasimenko, Jahrestagung der Astronomischen Gesellschaft, Kiel, Sep 14-18, 2015 (invited talk).

H. Krüger, T. Albin, I. Apathy, W. Arnold, A. Flandes, H.-H. Fischer, A. Hirn, **A. Loose**, A. Peter, M. Kobayashi, M. Sperl, and K. J. Seidensticker, Dust Impact Monitor SESAME-DIM on board Philae - Measurements at comet 67P/C-G, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

H. Krüger, K. J. Seidensticker, H.-H. Fischer, T. Albin, I. Apathy, W. Arnold, A. Flandes, A. Hirn, M. Kobayashi, **A. Loose**, A. Peter, and M. Podolak, Philae Dust Measurements at Comet 67P/Churyumov-Gerasimenko, Cosmic Dust Conference, Tokyo, Japan, Aug 17-21, 2015 (oral).

N. Krupp, S. Edgington, L. Spilker, and N. Altobelli, Cassini-Huygens Science Highlights and the last 2 years, 12th Annual Meeting of AOGS, Singapore, Aug 2-7, 2015 (invited talk).

N. Krupp, P. Kollmann, M. Thomsen, D. Mitchell, X. Jia, A. Masters, and P. Zarka, Global Configuration and Seasonal Variations of Saturn's Magnetosphere, 12th Annual Meeting of AOGS, Singapore, Aug 2-7, 2015 (oral).

N. Krupp, **E. Roussos**, **A. Kotova**, K. K. Khurana, G. H. Jones, and S. Simon, Enceladus flybys in the view of energetic particles, European Planetary Science Congress EPSC, Nantes, France, Sep 27 - Oct 2, 2015 (oral).

T. Kuroda, **A. Medvedev**, **J. Sethunadh**, and **P. Hartogh**, Radiation and Dynamics in Jupiter's Stratosphere, 12th Annual Meeting Asia Oceania Geosciences Society, Singapore, Aug 2-7, 2015 (oral).

A. Lagg, Chromospheric magnetic fields measurements, ISSI workshop on Solar Magnetic Fields: From Measurements towards Understanding, Bern, Switzerland, Jan 12-16, 2015 (oral).

A. Lagg, Quiet Sun Magnetism, 5th international workshop on small-scale solar magnetic fields, Bairisch-Kölldorf, Austria, Apr 21-24, 2015 (invited review talk).

A. Lagg, Spectropolarimetry of the Solar Chromosphere, Polarization in the Sun, the Solar System and Beyond, Granada, Spain, May 24-28, 2015 (invited review talk).

A. Lagg and GRIS-Team, Quiet-Sun Magnetism: A New Perspective from GRIS / GREGOR, Coimbra Solar Physics Meeting "Ground-based Solar Observations in the Space Instrumentation Era", Coimbra, Portugal, Oct 5, 2015 (invited talk).

Y. Langevin, **M. Hilchenbach**, N. Ligier, **S. Merouane**, K. Hornung, and T. Cosima, Typology of Cometary Particles Collected by the Cosima Instrument as Observed by the Cosima Camera (Cosiscope), European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

Y. Langevin, **M. Hilchenbach**, N. Ligier, **S. Merouhane**, and K. Hornung, Typology of dust particles collected by the COSIMA mass spectrometer in the inner coma of 67P/Churyumov Gerasimenko from Rendez-Vous to perihelion, European Planetary Science Congress, Nantes, France, Sep 27 - Oct 2, 2015 (oral).

J. Langfellner, **L. Gizon**, and **A. C. Birch**, Anisotropy of the solar network magnetic field around the average supergranule, Solarnet III / HELAS VII / SpaceInn Conference, Freiburg, Germany, August 31 - Sep 4, 2015 (oral).

J. Langfellner, **L. Gizon**, and **A. C. Birch**, Dynamics of solar supergranulation, Advances in the seismology of the Sun and stars, Mumbai, India, Dec 07-11, 2015 (invited talk).

J. Langfellner, L. Gizon, and **A. C. Birch**, Solar turbulent convection at supergranulation scale, Stellar and Planetary Dynamos, Göttingen, May 26-29, 2015 (oral).

R. Larsson, J. Mendrok, Y. Kasai, S. A. Buehler, C. Dieval, D. Brain, and **P. Hartogh**, Using Zeeman effect on molecular oxygen to measure Mars' crustal magnetism: Sensor requirements from simulated signal strengths, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

S. Lee, P. von Allmen, M. Hofstadter, G. Beaudin, N. Biver, D. Bockelee-Morvan, M. Choukroun, J. Crovisier, P. Encrenaz, T. Encrenaz, M. Frerking, S. Gulkis, **P. Hartogh**, W. H. Ip, M. Janssen, **C. Jarchow**, S. Keihm, E. Lellouch, C. Leyrat, **L. Rezac**, and F. P. Schloerb, Local and Diurnal Variation of Water Outgassing on Comet 67P/Churuymov-Gerasimenko Nucleus Observed from Rosetta/MIRO, 46th Lunar and Planetary Science Conference, The Woodlands, TX, USA, Mar 16-20, 2015.

Z. Lee-Payne, M. Grande, **N. Krupp**, C. Paranicas**, E. Roussos**, and P. Kollmann, Re-evaluating Galileo Energetic Particle Detector data based on radiation detector decay; for use in estimating Sputtering Erosion rates on Europa, European Planetary Science Congress EPSC, Nantes, France, Sep 27 - Oct 2, 2015 (poster).

A.-C. Levasseur-Regourd, A. Rotundi, M. Bentley, V. DellaCorte, M. Fulle, E. Hadamick, **M. Hilchenbach**, D. Hines, J. Lasue**, S. Merouane**, and J.-B. Renard, Physical properties of dust particles in cometary comae: from clues to evidence with the Rosetta mission, European Planetary Science Congress, Nantes, France, Sep 27 - Oct 2, 2015 (oral).

K. Li, **S. Haaland**, **P. W. Daly**, **E. A. Kronberg**, M. André, A. Eriksson, B. Lybekk, and A. Pedersen, On the dayside high altitude stagnant region of cold ion outflow, Cluster 15th and Double Star 10th anniversary workshop, Venice, Oct 12-16, 2015 (oral).

N. Ligier, Y. Langevin, **M. Hilchenbach**, **S. Merouane**, K. Hornung, and T. Cosima, Size, shape and substructure of dust particles collected by the COSIMA instrument on board ROSETTA, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

S. Limaye, **W. Markiewicz**, and R. Krauss, Seasons on Venus - cloud cover signatures, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

B. Löptien, **A. C. Birch**, **T. L. Duvall Jr.**, **L. Gizon**, and **J. Schou**, Data compression for helioseismology, SOLARNET III / HELAS VII / SpaceInn Conference "The Sun, the stars, and solar-stellar relations", Freiburg, Aug 31 - Sep 4, 2015 (oral).

S. Lorek, P. Lacerda, B. Gundlach, and J. Blum, Compaction of ice pebbles in collapsing pebble clouds and the dust-to-ice ratio of comets, European Planetary Science Congress 2015, Nantes, France, Sep 27 - Oct 2, 2015 (oral).

U. Mall, Abundance measurements of the comet's main species, Swedish Institute of Space Physics, IRF, Kiruna, Schweden, Dec 3, 2015 (invited seminar talk).

U. Mall, Der neue Mond - was wir in den letzten 10 Jahren Neues über den alten Mond gelernt haben, Bundesweite Lehrer-Fortbildung zur Astronomie, Heidelberg, Nov 13, 2015.

U. Mall, Exploring planetary surfaces with remote and in-situ tools, University of Beijing, China, Sep 10, 2015 (invited seminar talk).

U. Mall, Raumflugwesen und Weltraumforschung "Die Rückkehr zum Mond", Seminar für Raumflugwesen und Weltraumforschung, Technische Universität München, Oct 23, 2015.

U. Mall, Solar Wind Proton Interaction with Lunar Magnetic Anomalies and the Regolith, An Introduction to Lunar Science, Swedish Institute of Space Physics, IRF, Kiruna, Schweden, Dec 04, 2015 (invited seminar talk).

U. Mall, Water and Ice - From Rosetta back to the Moon, 2. Beijing International conference on lunar and Deep-Space Exploration, Beijing, China, Sep 9, 2015.

U. Mall, Water and Ice - From the Moon to 67/Churyumov-Gerasimenko and back - What we need to learn next, Universität Oldenburg, Nov 16, 2015 (oral).

A. S. Medvedev and E. Yigit, The role and importance of gravity waves in the mesosphere and thermosphere of Mars, AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015 (invited talk).

J. Mendrok, P. Eriksson, S. Buehler, A. Perrin, **P. Hartogh, L. Rezac**, and O. Lemke, Atmospheric radiative transfer generalised for use on Earth and other planets: ARTS 2.2, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

S. Merouane and **M. Hilchenbach**, Alteration of Grains by Electrical Charging in Cometary Comae, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

S. Merouane, **M. Hilchenbach**, and C. Team, Exploring Alteration of Grains in Cometary Comae Induced by Electrical Charging, 46th Lunar and Planetary Science Conference, The Woodlands, Texas, US, Mar 16-20, 2015 (poster).

K. Nagashima, L. Gizon, **A. C. Birch**, **R. Cameron**, **S. Danilovic**, **B. Löptien**, S. Couvidat, B. Fleck, and R. Stein, Multi-height Dopplergrams made from SDO/HMI filtergrams, Astronomical Society of Japan spring meeting, Osaka University, Osaka, Japan, Mar 19, 2015 (poster).

K. Nagashima, L. Gizon, **A. C. Birch**, and D. Fournier, Measurement of the amplitude of the solar cross-covariance function, SOLARNET III / HELAS VII / SpaceInn Conference "The Sun, the stars, and solar-stellar relations", Freiburg, Germany, Aug 31-Sep 4, 2015 (oral).

K. Nagashima, L. Gizon, **A. C. Birch**, and D. Fournier, Measuring and interpreting the amplitude of the cross-covariance function of solar seismic waves, Astronomical Society of Japan spring meeting, Osaka University, Osaka, Japan, Mar 18, 2015 (oral).

N. Oklay, **J.-B. Vincent**, S. Fornasier, M. Pajola, S. Besse, L. M. Lara, M. A. Barucci, S. Mottola, **H. Sierks**, A. Pommerol, **N. Masoumzadeh** and Lazzarin, F. Scholten, F. Preusker, and **I. Hall**, Variegation of active regions on comet 67P/Churyumov-Gerasimenko, AAS/Division for Planetary Sciences Meeting #47, Washington D.C., Nov 8-13, 2015 (oral).

N. Oklay, **J.-B. Vincent**, S. Besse, S. Fornasier, M. A. Barucci, L. Lara, F. Scholten, F. Preusker, F. L. Forgia, H. S. Monica Lazzarin, **I. Hall**, and the The OSIRIS Team, Colors of comet 67P/Churyumov-Gerasimenkos active pits and their surroundings as seen by OSIRIS on board Rosetta, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

N. Oklay, **J.-B. Vincent**, **H. Sierks**, S. Besse, S. Fornasier, M. A. Barucci, L. Luisa, F. Scholten, F. Preusker, M. Lazzarin, M. Pajola, F. La Forgia, **I. Hall,** and the OSIRIS Team, Colors of active regions on comet 67P, EPSC, Nantes, France, Sep 27- Oct 2, 2015.

N. Oklay, **J.-B. Vincent**, **H. Sierks**, **N. Masoumzadeh, I. Hall,** S. Fornasier, M. Barucci, M. Pajola, M. Lazzarin, S. Besse, L. M. Lara, S. Mottola, F. Scholten, F. Preusker, and A. Pommerol, Variegation of active regions on comet 67P/Churyumov-Gerasimenko, Division for Planetary Sciences 48, Washington, The USA, Nov 8-13, 2015 (oral).

L. O'Rourke, **C. Snodgrass**, M. de Val-Borro, N. Biver, D. Bockelée-Morvan, H. Hsieh, D. Teyssier, Y. Fernandez, M. Küppers, M. Micheli, and **P. Hartogh**, Determination of an upper limit for the water outgassing rate of main-belt comet P/2012 T1 (PANSTARRS), European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

B. Palmaerts, **E. Roussos**, **N. Krupp**, W. S. Kurth, and M. K. Dougherty, Statistical analysis of the quasi-periodic relativistic electron injections in the Saturn's magnetosphere, Cassini PSG meeting #65, ASI, Rome, Jan 19-22, 2015.

B. Palmaerts, **E. Roussos**, **N. Krupp**, W. S. Kurth, D. G. Mitchell, and M. K. Dougherty, Statistical analysis and multi-instrument overview of the quasi-periodic 1-hour pulsations in Saturn's outer magnetosphere, European Planetary Science Congress EPSC, Nantes, France, Sep 27 - Oct 2, 2015 (poster).

B. Palmaerts, **E. Roussos**, **N. Krupp**, W. S. Kurth, D. G. Mitchell, and M. K. Dougherty, Statistical analysis and multi-instrument overview of the quasi-periodic 1-hour pulsations in the Saturn's outer magnetosphere, Magnetospheres of the Outer Planets 2015, Atlanta, Georgia, USA, Jun 1-5, 2015 (oral).

E. Papini, **A. C. Birch**, **L. Gizon**, and S. M. Hanasoge, Simulating acoustic waves in spotted stars, Stellar and Planetary Dynamos, Goettingen, May 26-29, 2015.

J. Paquette, N. Altobelli, K. Altwegg, C. Briois, L. Colangeli, H. Cottin, D. Baklouti, A. Bardyn, C. Engrand, H. Fischer, N. Fray, A. Glasmachers, E. Gruen, M. Godard, G. Haerendel, H. Henkel, **M. Hilchenbach**, H. von Hoerner, H. Höfner, K. Hornung, E. Jessberger, **J. Kissel**, A. Koch, **P. Lacerda**, Y. Langevin, H. Lehto, K. Lehto, L. L. Roy, N. Ligier, P. Martin, **S. Merouane**, F.-R. Orthous-Daunay, F. Raulin, C. Revillet, J. Rynö, R. Schulz, J. Silen, S. Siljeström, W. Steiger, **O. Stenzel**, T. Stephan, L. Thirkell, R. Thomas, K. Torkar, K. Varmuza, K.-P. Wanczek, Z.-Y. Lin, and B. Zaprudin, COSIMA at Comet 67P/Churyumov-Gerasimenko After Perihelion, AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015 (poster).

J. Paquette, C. Engrand, and the COSIMA Team, Searching for Calcium-Aluminum-Rich Inclusions in Cometary Grains with Rosetta/COSIMA, Goldschmidt 2015, Prague, CZ, Aug 16-21, 2015 (poster).

J. Park, **D. E. Innes**, **R. Bucik**, Y.-J. Moon, and S. W. Kahler, Study of solar energetic particle associations with extreme-ultraviolet waves, The 3rd Asia-Pacific Solar Physics Meeting, Seoul National University, Seoul, Rep. of Korea, Nov 3-6, 2015 (poster).

M. Rashev, **E. Kronberg**, and **P. W. Daly**, On contamination of RAPID/IES data in the radiation belts, Cluster 15th and Double Star 10th anniversary workshop, Venice, Oct 12-16, 2015 (poster).

L. Regoli, A. Coates, M. Thomsen, M. Feyerabend, G. Jones, **E. Roussos**, and **N. Krupp**, Pickup Ion Signatures in the Vicinity of Titan, AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015 (poster).

L. Regoli, M. Feyerabend, **E. Roussos**, G. Jones, **N. Krupp**, and A. Coates, Global precipitation maps of energetic particles in Titan's atmosphere: T9 flyby, Cassini PSG Meeting 65, ASI, Rome, Jan 19-22, 2015.

L. Regoli, E. Roussos, M. Feyerabend, G. Jones, **N. Krupp**, A. Coates, S. Simon, and U. Motschmann, Access of energetic particles to Titans exobase, European Planetary Science Congress EPSC, Nantes, France, Sep 27 - Oct 2, 2015 (poster).

L. H. Regoli, E. Roussos, M. Feyerabend, G. H. Jones, **N. Krupp**, A. J. Coates, S. Simon, U. Motschmann, and M. K. Dougherty, Access of energetic particles to Titan's exobase: a study of Cassini's T9 flyby, Magnetospheres of the Outer Planets 2015, Atlanta, USA, Jun 1-5, 2015 (oral).

M. Rengel, La extraña atmósfera de Titán vista con el Observatorio Espacial Herschel, La Astronomía toma a Caracas, Humboldt Planetarium, Caracas, Venezuela, Mar 21, 2015 (oral).

M. Rengel, La extraña química de la atmósfera de Titán vista con el Observatorio Espacial Herschel, Universidad Metropolitana, Caracas, Venezuela, Mar 18, 2015 (oral).

M. Rengel, La extraña química de la atmósfera de Titán vista con el Observatorio Espacial Herschel, Center of Physics, the Venezuelan Institute for Scientific Research, Caracas, Venezuela, Mar 19, 2015 (oral).

M. Rengel, Trans-Neptunian Objects: recent Advances, Synergy from ground and space-based observations, and Perspectives, Ground and space observatories: a joint venture to planetary science, Santiago, Chile, Mar 2-5, 2015 (invited talk).

M. Rengel, R. Moreno, R. Courtin, E. Lellouch, H. Sagawa, **P. Hartogh**, B. Swinyard, M. Lara, H. Feuchtgruber, **C. Jarchow**, T. Fulton, J. Cernicharo, D. Bockelée-Morvan, N. Biver, M. Banaszkiewicz, and A. González, Spectroscopy of atmospheric trace gases on Titan with Herschel: Advances and Discoveries, ALMA/Herschel Archival Workshop, Garching bei München, Apr 15-17, 2015 (oral).

M. Rengel, R. Moreno, R. Courtin, E. Lellouch, H. Sagawa, **P. Hartogh**, B. Swinyard, M. Lara, H. Feuchtgruber**, C. Jarchow**, T. Fulton, J. Cernicharo, D. Bockelée-Morvan, N. Biver, M. Banaszkiewicz, and A.

González, Spectroscopy of atmospheric trace gases on Titan with Herschel: Advances and Discoveries, ESA SRE Science Workshop, Aranjuez, Spain, Nov 9-11, 2015 (oral).

M. Rengel, H. Sagawa, and **P. Hartogh**, Hydrogen Cyanide in the Stratosphere of Titan, 12th Annual Meeting Asia Oceania Geosciences Society, Singapore, Aug 2-7, 2015 (oral).

M. Rengel, D. Teyssier, M. Mueller, W. Jellema, R. Moreno, and I. Avruch, Solar System Objects as Prime Calibrators for Herschel/HIFI, 12th Annual Meeting Asia Oceania Geosciences Society (AOGS), Singapore, Aug 2-7, 2015 (poster).

K. D. Retherford, G. R. Gladstone, S. A. Stern, H. A. Weaver, L. A. Young, K. A. Ennico, C. B. Olkin, A. F. Cheng, T. K. Greathouse, D. P. Hinson, J. A. Kammer, I. R. Linscott, A. H. Parker, J. Wm. Parker, W. R. Pryor, E. Schindhelm, K. N. Singer, A. J. Steffl, D. F. Strobel, M. E. Summers, C. C. C. Tsang, G. L. Tyler, M. H. Versteeg, W. W. Woods, N. J. Cunningham, and **W. Curdt**, Pluto's Extended Atmosphere: New Horizons Alice Lyman-α Imaging, 47th Annual Meeting of the AAS Division for Planetary Sciences, Washington DC, Nov 8-13, 2015 (oral).

L. Rezac, **P. Hartogh**, H. Wiesemeyer, R. Güsten, and **C. Jarchow**, First Detection of the 63 Micron Oxygen Line in the Thermosphere of Mars with the GREAT Instrument, 12th Annual Meeting Asia Oceania Geosciences Society, Singapore, Aug 2-7, 2015 (oral).

T. Riethmüller, SUNRISE - Das fliegende Sonnenteleskop, Vortrag anlässlich der Sonnenfinsternis am 20. März 2015, Gymnasium St. Josef in Dingelstädt, Mar 20, 2015 (oral).

T. L. Riethmüller and S. **K. Solanki**, SUNRISE Mission Highlights, DPG-Frühjahrstagung, Wuppertal, Mar 9-13, 2015 (oral).

T. L. Riethmüller and **M. van Noort**, Stokes Inversion of the Sunrise2/IMaX Data, 8th Sunrise Science Meeting, Madrid, May 4-5, 2015 (oral).

T. L. Riethmüller and **M. van Noort**, The magnetic field weakening in pores, 9th Sunrise Science Meeting, Max Planck Institute for Solar System Research, Göttingen, Sep 28-29, 2015 (oral).

K. Rogers, M. Caldwell, P. Eccleston, D. Griffin, P. Greenway, A. Fludra, K. Middleton, I. Tosh, T. Richards, A. Philippon, and **U. Schühle**, Optical alignment of the SPICE EUV imaging spectrometer, Optical Systems Design 2015: Optical Design and Engineering VI, Jena, D, Sep 7, 2015 (oral).

E. Roussos, **N. Krupp**, **M. Fraenz**, P. Kollmann, P. Truscott, and Y. Futaana, Hot Plasma Environment Model (HPEM): A empirical model for describing time-dependent processes of the jovian energetic electron environment, European Planetary Science Congress EPSC, Nantes, France, Sep 27 - Oct 2, 2015 (poster).

S. Schuh, Der Klang der Sterne, Zeiss Planetarium Bochum, Bochum, Oct 21, 2015. (Oral).

S. Schuh, Stellar pulsation and the search for new worlds, Royal Astronomical Society Specialist Discussion - Asteroseismoloy: high-precision stellar metrics for the exoplanet era, London, May 8, 2015. (oral).

R. Schulz, **M. Hilchenbach**, **J. Kissel**, Y. Langevin, J. Silen, C. Briois, C. Engrand, K. Hornung, D. Baklouti, A. Bardyn, H. Cottin, H. Fischer, N. Fray, M. Godard, H. Lehto, L. Le Roy, **S. Merouane**, F.-R. Orthous-Daunay, **J. Paquette**, J. Rynö, S. Siljeström, **O. Stenzel**, L. Thirkell, and K. Varmuza, On the Dust of Comet 67P/Churyumov-Gerasimenko measured by COSIMA, IAU General Assembly, Meeting #29, Honolulu ,Hawaii, United States, Aug 3-14, 2015.

M. Schüssler, Die magnetische Sonne, Nacht des Wissens, Göttingen, Jan 17, 2015 (oral).

M. Schüssler, Small-scale dynamo action in the Sun, ISSI Workshop on "Solar Magnetic Fields: From Measurements Towards Understanding", Bern, Switzerland, Jan 12-16, 2015 (invited talk).

M. Schüssler and **R. H. Cameron**, The Babcock-Leighton solar dynamo, Stellar and Planetary Dynamos, Göttingen, May 26-29, 2015 (oral).

A. Shapiro, **S. Solanki**, and **N. Krivova**, Brightness variations of the Sun and Sun-like stars, Solar-Stellar Connection Workshop, Sandbjerg, Denmark, Jan 2015 (invited talk).

A. Shapiro, **S. Solanki**, and **N. Krivova**, Solar brightness variability in the stellar context, Second SOLAR-NET Meeting on "Solar and stellar magnetic activity, Palermo, Italy, Feb 2015 (invited talk).

A. I. Shapiro, **S. K. Solanki**, and **N. A. Krivova**, Modelling stellar brightness variations, Stellar and Planetary dynamos, Goettingen, May 26-29, 2015 (oral).

J. Silen, **M. Hilchenbach**, K. Hornung, **S. Merouane**, and R. Schulz, Observational support for dust grain emission by electrostatic forces, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (poster).

O. J. Stenzel, K. Varmuza, C. Engrand, L. Ferrière, F. Brandstätter, C. Koeberl, P. Filzmoser, **J. Paquette**, and **M. Hilchenbach**, Correlation Based analysis of SIMS Data from Meteorite Samples for Comparison with Cometary Grains, EPSC 2015, Nantes, Sep 27-Oct 2, 2015 (poster).

O. J. Stenzel, K. Varmuza, C. Engrand, L. Ferriere, F. Brandstätter, C. Koeberl, P. Filzmoser, **J. Paquette**, and **M. Hilchenbach**, Using Meteorite Samples as a Test for Correlation Based Analysis of SIMS Data from Cometary Grains, 46th Lunar and Planetary Science Conference, The Woodlands, Texas, US, Mar 16-20, 2015 (poster).

A. L. S. Tapia, S. K. Solanki, **A. Lagg**, and **M. van Noort**, Anomalous reversed Evershed flow in a sunspot penumbra, Sunspot formation: theory, simulations and observations, Stockholm, Sweden, Mar 9-13, 2015 (poster).

G. Thangjam, **A. Nathues**, K. Mengel, **M. Hoffmann**, **M. Schäfer**, P. Mann, E. A. Cloutis, H. Behrens, **T. Platz, T. Schäfer, H. Sierks, U. Christensen**, and C. T. Russell, Surface compositional heterogeneity of (4) Vesta from Dawn FC using a 3 dimensional spectral approach, EPSC, Nantes, France, Oct 1, 2015 (oral).

D. Titov, S. Barabash, L. Bruzzone, M. Dougherty, C. Erd, L. Fletcher, P. Gare, R. Gladstone, O. Grasset, L. Gurvits, **P. Hartogh**, H. Hussmann, L. Iess, R. Jaumann, Y. Langevin, P. Palumbo, G. Piccioni, G. Sarri, J.-E. Wahlund, and O. Witasse, Jupiter Icy Moons Explorer: mission status after the Definition Phase, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

I. Usoskin, R. Arlt, E. Asvestari, G. Kovaltsov, **N. Krivova**, M. Lockwood, M. Käpylä, M. Owens, D. D. Sokoloff, **S. Solanki**, W. Soon, J. Vaquero, and C. Scott, The Maunder minimum: A reassessment from multiple dataset, XXIX IAU General Assembly, Honolulu, USA, Aug 3 - 14, 2015 (oral).

V. M. Vasyliūnas, Alfvén wings in the solar system, Festkolloquium anlässlich des 75. Geburtstags von Prof. Dr. Fritz M. Neubauer, Institut für Geophysik und Meteorologie der Universität zu Köln, Oct 30, 2015, (invited talk).

V. M. Vasyliūnas, Comparative Magnetospheres in the Solar System, AGU Chapman Conference on Magnetospheric Dynamics, Fairbanks, Alaska, USA, Sept 27 - Oct 2, 2015 (invited tutorial lecture).

V. M. Vasyliūnas, Definitions of reconnection revisited: Distinction between magnetic reconnection and plasma reconnection, AGU Fall Meeting, San Francisco, USA, Dec 14-18, 2015 (oral).

V. M. Vasyliūnas, Physical nature of near-Earth magnetotail reconnection events, Unsolved Problems in Magnetosheric Physics Workshop, Scarborough, Yorkshire, U.K., Sep 6-12, 2015 (invited talk).

V. M. Vasyliūnas, Puzzles of Saturns dual periodicities: irrelevance of the rotation rate, Magnetospheres of Outer Planets 2015, Atlanta, Georgia, USA, Jun 1-5, 2015 (oral).

V. M. Vasyliūnas, Stress balance of "camshaft" magnetic fields, Magnetospheres of Outer Planets 2015, Atlanta, Georgia, USA, Jun 1-5, 2015 (poster).

E. Vilenius and **P. Daly**, Long-term decay effect of the RAPID Imaging Electron spectrometer, Cluster 15th and Double Star 10th anniversary workshop, Venice, Oct 12-16, 2015 (poster).

G. L. Villanueva, M. J. Mumma, R. E. Novak, H. U. Kaufl, **P. Hartogh**, T. Encrenaz, A. T. Tokunaga, A. Khayat, and M. D. Smith, The Evolution of the Water Reservoirs on Mars Revealed via D/H Isotopic Mapping, 46th Lunar and Planetary Science Conference, The Woodlands, TX, USA, Mar 16-20, 2015 (oral).

P. von Allmen, S. Lee, M. Hofstadter, N. Biver, D. Bockelee-Morvan, M. Choukroun, S. Gulkis, **P. Hartogh**, M. Janssen, **C. Jarchow**, S. Keihm, E. Lellouch, C. Leyrat**, L. Rezac**, P. Schloerb, J. Crovisier, P. Encrenaz, and W. Ip, Spatial and Temporal Variations of the Near-Surface Thermal Properties of 67P/Churyumov-Gerasimenko Obtained from Continuum Observations with Microwave Instrument on the Rosetta Orbiter (MIRO), 46th Lunar and Planetary Science Conference, The Woodlands, TX, USA, Mar 16-20, 2015 (oral).

P. von Allmen, S. Lee, S. Gulkis, M. Hofstadter, P. Schloerb, N. Biver, D. Bockelée-Morvan, M. Choukroun, **P. Hartogh**, M. Janssen, **C. Jarchow**, S. Keihm, E. Lellouch, C. Leyrat, **L. Reza**c, J. Crovisier, P. Encrenaz, T. Encrenaz, and W. Ip, Line Shape Analysis and Abundance Quantification for Methanol in the Comet 67P/Churuymov-Gerasimenko Coma Derived from Microwave Instrument on the Rosetta Orbiter (MIRO) Observations, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015 (oral).

A. P. Walsh and **S. Haaland**, Sources of Asymmetry in the magnetotail lobes, Cluster 15th and Double Star 10th anniversary workshop, Venice, Oct 12-16, 2015 (oral).

J. Warnecke, Connecting the solar dynamo below the surface with ejection of twisted magnetic fields above the surface, Forecasts and Warnings of Extreme Storms at the Sun, Lund, Sweden, Jun 1, 2015 (invited talk).

J. Warnecke, Understanding the solar dynamo from numerical simulations, Mathematics Seminar, Division of Mathematics, University of Dundee, UK, Feb 23, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, and A. Brandenburg, Magnetic field generation in the Sun driven by rotating Rayleigh-Bénard convection in spherical wedges, International Conference on Rayleigh-Bénard Turbulence, Göttingen, Germany, Jun 1-5, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, and A. Brandenburg, Understanding the equatorward migration of the Sun's magnetic field, Sunspot formation: theory, simulations and observation, Stockholm, Sweden, Mar 9-13, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, and A. Brandenburg, Understanding the equatorward migration of the Sun's magnetic field, Stellar and Planetary Dynamos, Göttingen, Jun 26-29, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, and A. Brandenburg, Understanding the equatorward migration of the Sun's magnetic field, NASA LWS Workshop on Solar Dynamo Frontiers, Boulder, US, June 9-12, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, and A. Brandenburg, Understanding the equatorward migration of the Sun's magnetic field, 2nd Solarnet meeting, 2nd Solarnet meeting, Solar and Stellar Activity, Palermo, Italy, Feb 2-5, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, M. Rheinhard, and A. Brandenburg, Understanding Solar and Stellar Activity with Numerical Simulations, CS Forum, School of Science, Aalto University, Finland, Oct 1, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, M. Rheinhard, and A. Brandenburg, Understanding Solar and Stellar Dynamos with numerical simulations, Annual Meeting of the Astronomische Gesellschaft, Kiel, Sep14-18, 2015 (oral).

J. Warnecke, P. J. Käpylä, M. J. Käpylä, M. Rheinhard, and A. Brandenburg, Understanding the solar dynamo form global dynamo simulations, 2nd International Sino-German Symposium of Solar Physics: Multi Waveband Observations and Modeling of Solar Activity, Bad Honnef, Aug 31-Sep4, 2015 (oral).

J. Warnecke, I. R. Losada, A. Brandenburg, N. Kleeorin, and I. Rogachevskii, Bipolar region formation in stratified turbulence, Flux Emergence Workshop (FEW2015), Boulder, US, Jun 15-19, 2015 (oral).

J. Warnecke, I. R. Losada, A. Brandenburg, N. Kleeorin, and I. Rogachevskii, Bipolar region formation in stratified two-layer turbulence, Sunspot formation: theory, simulations and observations, Stockholm, Sweden, Mar 9-13, 2015 (oral).

J. Wicht and A. Manglik, A dynamic inner core boundary condition for terrestrial dynamo simulations, IUGG General Assembly, Prague, Czech Republic, June 22 - July 2, 2015 (oral).

J. Wicht and **D. Meduri**, A Gaussian Model for Simulated Geomagnetic Field Reversals, European Geosciences Union General Assembly, Vienna, Austria, Apr 12-17, 2015.

F. Widmer, **J. Büchner**, N. Yokoi, and W. Schmidt, Turbulent MHD Magnetic Reconnection using Sub-grid Scale Modelling, Turbulence, magnetic fields and self organization in laboratory and astrophysical plasmas, Les Houches, France, March 23 - Apr 3, 2015 (poster).

T. Wiegelmann, Advanced modelling of the coronal magnetic field, IUGG, Prague, Jun 22 - Jul 2, 2015, (invited talk).

T. Wiegelmann, Coronal magnetic field extrapolation, Solar Magnetic Fields: from Measurements towards Understanding, Bern, Jan 12-16, 2015 (invited talk).

T. Wiegelmann, Coronal modelling for Solar Orbiter, 16th Solar Orbiter SWT Meeting Numerical modeling support for Solar Orbiter (special MADAWG session), Göttingen, Feb 11, 2015 (invited talk).

T. Wiegelmann, Solar coronal magnetic fields: Source region for space weather activity, 4. Nationaler Weltraumwetterworkshop, Neustrelitz, May 11-13, 2015 (oral).

T. Wiegelmann, Solar magnetic activity and space weather, Workshop and Research visit on: The synergy of magnetic reconnection and waves in evolution of the solar corona, Weihai, Jun 30 – Jul 8, 2015 (invited colloquium talk).

M. Yamauchi, T. Hara, R. Lundin, **E. Dubinin**, A. Fedorov, J.-A. Sauvaud, R. Frahm, R. Ramstad, Y. Futaana, and S. Barabash, Seasonal Variation of Martian pickup ions, European Planetary Science Congress, Nantes, France, Sep 27 - Oct 2, 2015 (poster).

K. L. Yeo, **N. A. Krivova**, and **S. K. Solanki**, Discrepancy between the various UV SSI records and reconstructions, and the underlying causes, SOLARIS-HEPPA Working Group Meeting, Boulder, Colorado, USA, Nov 5, 2015 (oral).

K. L. Yeo, **N. A. Krivova**, and **S. K. Solanki**, Measurements and models of solar irradiance variability in the satellite-era, Conference on Sun-Climate Connections, Kiel, Mar 16-19, 2015 (invited talk).

K. L. Yeo, **N. A. Krivova**, and **S. K. Solanki**, SATIRE-S reconstruction of TSI and SSI since 1974, 2015 Sun-Climate Symposium, Savannah, Georgia, USA, Nov 10, 2015 (oral).

K. L. Yeo, **N. A. Krivova**, and **S. K. Solanki**, Solar irradiance variability since 1978 Reconciling measurements and models, AOGS 12th Annual Meeting, Singapore, Aug 5, 2015 (oral).

K. L. Yeo, **S. K. Solanki**, and **N. A. Krivova**, Solar magnetic activity and solar irradiance variability since 1978, 2nd SOLARNET Meeting, Palermo, Feb 2-5, 2015 (invited talk).

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5. Seminare / *Seminars*

MPS Seminar und Kolloqium / *MPS Seminar and Colloquium*

Vorträge von Gästen und eingeladenen Wissenschaftlern / *Talks by guests and invited scientists*

Robert Stein (University of Michigan, USA), Granules, Flux Emergence and the Sub-surface structure of sunspots, 14 Jan 2015

Dominik Utz (University of Graz, Austria), Magnetic bright point dynamics and evolutions observed by IMaX/Sunrise and other instruments, 20 Jan 2015

Rachel Howe (University of Birmingham, UK), Helioseismic Observations of the Solar Cycle, 22 Jan 2015

Anjali John Kaithakkal (National Astronomical Observatory of Japan, Tokyo, Japan), A Study on the Photospheric Polar Magnetic Patches of the Sun as Revealed with Hinode, 23 Jan 2015

Catherine Fischer (Kiepenheuer-Institute for Solar Physics, Freiburg, Germany), Fast-evolving magnetic structures in high-resolution spectropolarimetry, 27 Jan 2015

Peter Young (Naval Research Laboratory, Washington DC, USA), The X-flare of 29 March 2014: new results from the best-ever flare observation, 27 Jan 2015

Bidya Binay Karak (Nordita, Stockholm, Sweden), Modelling solar cycle: from mean-field to global simulations, 18 Feb 2015

Eleanna Asvestari, (University of Oulu, Finland), Empirical modelling of cosmic rays heliospheric modulation, 23 Feb 2015

Johannes Andersen (The Niels Bohr Institute, Copenhagen, Denmark), 40 years of testing stellar evolution models, 15 Apr 2015

Gregal Vissers (University of Oslo, Norway), Unveiling Ellerman bombs with IRIS eyes, 27 Aprl 2015

Heike Rauer (Institute for Planetary Research, DLR Berlin, Germany and Department of Astronomy und Astrophysics, TU Berlin, Germany), Exoplanets -- What's next?, 29 Ap 2015

Chad Madsen (Harvard-Smithsonian Center for Astrophysics, Cambridge and Boston University), A Closer Look at Sunspot Oscillations with IRIS, 7 May 2015

Ganna Portyankia (Laboratory of Atmospheric and Space Physics, University of Colorado in Boulder, USA), Spring in Martian polar areas, 13 May 2015

Svetlana Ermolenko (St. Petersburg State University, Ruaaia, and Leipzig University, Germany), Short-period free oscillations of the atmosphere, 27 May 2015

Friedrich Anders (Leibniz-Institut für Astrophysik Potsdam, Germany), Galactic Archaeology with asteroseismology and spectroscopy, 8 Jun 2015

Elena Kronberg (MPS / Ludwig-Maximilians-University, Munich; Germany), THOR: Turbulent Heating ObserveR, 22 Jul 2015

Dean Chou (National Tsing Hua University, Taiwan), Probing Solar Magnetic Fields at the Base of Convection Zone, 11 Sep 2015

Friedrich Kupka (University of Vienna, Austria), Numerical simulation modelling of convection and pulsation, 7 Oct 2015

Guy Davies (University of Birmingham, UK), Asteroseismology: Observations of solar-like pulsators, 13 Oct 2015

Jesse Lee Dimech (School of Geography, Environment and Earth Sciences, Wellington, NZ), Seismic investigations of the Lithosphere, 10 Nov 2015

Scott W. McIntosh (High Altitude Observatory, Boulder, USA), Observing Cycles, Seasons, and Storms, 20 Nov 2015

Ilya Usoskin (University of Oulu, Finland), Sunspot number series: how can we get out of the current mess? 26 Nov 2015

Seminar der Sonnengruppe am MPS / *MPS Solar Group Seminar*

Vorträge (meistens) von Mitgliedern der Sonnengruppe / *Talks (mostly) by members of the Solar group*

Robert Cameron, The evolution of the Sun's toroidal flux, 6 Jan 2015

Alexander Shapiro, The role of the Fraunhofer lines in solar irradiance variability, 10 Feb 2015

Ivan Milic, Polarized line formation in toy models of prominences: 1D vs. multidimensional radiative transfer, 17 Feb 2015

Manfred Schüssler, The cause of the weak cyle 24, 31 Mar 2015

Davina Innes, IRIS line profiles: Small-scale reconnection on the Sun, 14 Apr 2015

David Bühler, Formation of a solar H-alpha filament from penumbra-like structures, 21 Apr2015

Benjamin Beeck, Selfconsistent magnetostatic modelling of the mixed plasma-beta solar atmosphere, 12 May 2015

Hardi Peter, Limitations of Force-Free Extrapolations: Revisiting Basic Assumptions, 30 Jun 2015

Sami K. Solanki, Polarisation in Astrophysics , 7 Jul 2015

Pradeep Chitta, A closer look at the footpoints of coronal loops rooted in a sunspot umbra, 14 Jul 2015

Tom Duvall, Probing sunspots with two-skip time-distance helioseismology, 4 Aug 2015

Sami K. Solanki, The Solar Department 2013-2015: Presentation given to the Scientific Advisory Board, 22 Sep 2015

Jörg Büchner, Eruptions at Sun and in the Laboratory, 13 Oct 2015

Bidya Binay Karak, Is the small-scale magnetic field correlated with the dynamo cycle?, 27 Oct 2015

Tino Riethmüller, Can we simulate the real Sun with MURaM, 3 Nov2015

Jörn Warnecke, A new view on dynamo mechanisms occurring in solar-like simulations, 17 Nov 2015

Sanja Danilovic, Internetwork magnetic field as revealed by 2D inversions, 24 Nov 2015

Satoshi Inoue, Simulation Study on Flare Onset Based on Photospheric Magnetic Field, 1 Dec 2015

Seminar der Sonne-Klima Gruppe am MPS / *MPS Sun Climate Seminar*

Vorträge von Mitgliedern der Sonne-Klima Gruppe und externen Vortragenden / *Talks by members of the Sun-climate group at MPS and external speakers*

Alexander Shapiro, Connecting solar and stellar variabilities, 27 May 2015

Vayanktesh Chandely (Indian Institute of Technology, Delhi, India), The Sun vs. Kepler stars, 15 Jul 2015

Ragadeepika Pucha (Indian Institute of Astrophysics, Bangalore, India), Extracting meridional flow circulation from HMI Dopplergrams, 27 Aug 2015

Micha Schöll, (Physikalisch-Meteorologisches Observatorium, Davos, Switzerland), Building the composite of solar irradiance data, 15 Sep 2015

William Ball (Physikalisch-Meteorologisches Observatorium, Davos, Switzerland), Stratospheric ozone observations and recent measurements of spectral solar irradiance, 15 Sep 2015

Theodosios Chatzistergos, Exploiting historical Ca II K spectroheliogramarchives: Preliminary results from four archives, 1 Oct 2015

Johann Jungclaus, Hauke Schmidt (Max-Planck-Institut für Meteorologie, Hamburg, Germany), Solar forcing for the next round of PMIP4/CMIP6 experiments, 1 Dec 2015

Gaël Cessateur (Royal Belgian Institute for Space Aeronomy, Brussels, Belgium), Modelling of solar irradiance for the Earth and comets, 8 Dec 2015

Rinat Tagirov (Physikalisch-Meteorologishes Observatorium Davos, Switzerland), NESSY: NLTE spectral synthesis code for solar and stellar atmospheres, 10 Dec 2015

Seminar der Planetengruppe am MPS / *MPS Planetary Group Seminar*

Vorträge von Mitgliedern der Planetengruppe und externen Vortragenden / *Talks by members of the Planatery grou and external speakers*

Julien Aubert (IPGP, Frankreich), Probing Earth's core dynamics with geomagnetic data and numerical, 22 Jan 2015

Thomas Gastine, Explaining Jupiter's internal dynamics, 29 Jan 2015

Thomas Müller (Max Planck Institute for extraterrestrial Phsics, Garching, Germany), Apophis – A threat to the Earth?, 26 Feb 2015

Pedro Lacerda, The surfaces of Kuiper belt objects, 23 Mar 2015

Marc Hofmann, Regolith avalanche – small scale impacts as trigger mechanism, 22 Apr 2015

Kurt Mengel (University of Technology, Clausthal, Germany), Rocks from Vestas: Implications for understanding Earth's evolution, 6 May 2015

Denis Grodent (Laboratory for Planetary and Atmospheric Physics, Université de Liège, Belgium), At the heart of Jupiter's aurora, 21 May 2015

Erdal Yigit (George Mason University, Fairfax, USA), Waves in terrestrial and planetary atmospheres, 3 Jun 2015

Naoki Terada (Tohoku University, Sendai, Japan), Effects of regional couplings on the upper atmospheres of Mars and Venus, 12 Jun 2015

Jean-Baptiste Vincent, AIDA: Asteroid Impact & Deflection Assessment, 24 Jun 2015

Martin Hoffmann, A tale about dwarfs, 1 Jul 2015

Vera Assis Fernandes (Museum für Naturkunde, Leibniz-Institut für Evolutions- und Biodiversitäts-forschung, Berlin, Germany), The Heavy Bombardment Eon of the Earth-Moon-System, 3 Sep 2015

Kurt Mengel (TU Clausthal, Germany), Early differentiation of Vesta, insights from the evolution of the howarditic diogenite DAG 779 and crystallization conditions of orthopyroxene, 28 Oct 2015

Yaroslaw Ilyushin (Osservatorio Astnonomico di Trieste, Italy), Deep subsurface radio probing of the icy moons: what can we expect from it? 12 Nov 2015

Stephan van Gasselt (FU Berlin, Germany), The Martian Cryosphere and the Amazonian Glacial Paradigm, 19 Nov 2015

Guneshwar Singh Thangjam, Are HED meteorites from asteroid (4) Vesta? 25 Nov 2015

Kostas Dialynas (University of Athens, Greece), The study of the global Heliosheath using Energetic Neutral Atom measurements obtained by the Cassini/INCA imager, 25 Nov 2015

Rosetta Seminar / *Rosetta Seminar*

Vorträge von Mitgliedern der Rosetta-Gruppe und externen Vortragenden / *Talks by members of the Rosetta group and external speakers*

Carmen Tornow (DLR, Berlin, Germany), Evolution of D/H ratio in a 3-stage solar nebula, 20 Jan 2015

Martin Hilchenbach, In-Situ Cometary Particle Measurements in the Inner Coma of Comet 67P/Churyumov-Gerasimenko, 27 Feb 2015

Fred Goesmann, COSAC; First Science Sequence interpretation of organics on 67/P, 20 Mar 2015

Reinhard Roll, Philae Landing - Schedule and Technical Aspects, 27 Mar 2015

Dennis Bodewits *(*University of Maryland, College Park, USA), OSIRIS observations of the physics and chemistry in the coma of comet 67P/CG , 29 Apr 2015

Hermann Böhnhardt, Outlook on Philae Science Summer 2015, 30 Apr 2015

Sihane Merouane, Dust particle flux as observed by COSIMA onboard Rosetta, 14 Aug 2015

Mike A'Hearn *(*University of Maryland, College Park, USA), Understanding comets with Rosetta, 28 Aug 2015

Reinhard Roll, First touch down of Philae - an update, 11 Sep 2015

Urs Mall, ROSINA: Abundance measurements of the comet's main species, 9 Nov 2015

IMPRS Solar System Seminar (S^3 Seminar)

Typisch drei Vortäge von Doktoranden über das Thema ihrer Doktorarbeit, manchmal ergänzt durch Votrag eines externen Vortragenden
Typically three talks by students about their PhD project, sometimes complemented by a talk of an external speaker

Philipp Grete, Subgrid-scale closures of highly compressible MHD turbulence, 14 Jan 2015

Fabien Widmer, SGS Models for Turbulent Reconnection in MHD, 14 Jan 2015

Patricio Munoz Sepulveda, PIC simulations of current sheets: kinetic effects in magnetic reconnection, 14 Jan 2015

Suzana de Souza, Thermal conduction and radiatice processes in solar flares, 14 Jan 2015

Andrea Bossmann, Magnetic field generation in the ice giants: The effect of stable stratification, 28 Jan 2015

Ivan de Gennaro Aquino (Hamburger Sternwarte, University of Hamburg, Germany, M-dwarfs chromospheres with PHOENIX/3D, 28 Jan 2015

Tanja Schäfer, Possible Ceres mineralogy seen by Dawn FC color filter data, 28 Jan 2015

Guneshwar Thangjam, Mineralogy and Geology of Vesta from Dawn FC, 28 Jan 2015

Nathalie Themeßl, Asteroseismology of Red Giants in Eclipsing Binaries, 22 Apr 2015

Dan Yang, Helioseismic Holography, 22 Apr 2015

Ankit Barik, Flow Instabilities in Spherical Couette System, 29 Apr 2015

Iulia Chifu, Multi-Spacecraft Analysis of the Solar Coranal Plasma, 29 Apr 2015

Krzysztof Barczynski, Correlation of Magnetic Field wiht Chromospheric Features, 6 May 2015

Rosita Kokotanekova, Photometric Study of the Rotational Properties of Kuiper Bet Objects, 6 May 2015

Benjamin Palmaerts, Statistical Analysis and Multi-Instrument Overview of the Quasi-Peridoc 1-Hour Pulsations in Saturn's Magnetosphere, 20 May 2015

Fransisco Iglesias, Fast Solar Polarimeter: First Results and Future Work, 20 May 2015

Sebastian Höfner, The Activity of Comet 67P / CG, 24 Juni 2014

Sebastian Lorek, Formation of Comets by Gravitational Collapse of Pebble Clouds, 24 Jun 2015

Stephan Barra, Coronal Active Region Modelling based on SDO Data, 1 Jul 2015

Leonardo Regoli, Access of Energetic Particles to Titan's Exobase: A Study of Cassini's T9 Flyby, 1 Jul 2015

Zelia Ferret, Heliseismologiy of Subsurface Flows, 8 Jul 2015

Emanuele Papini, Linear Simulations of Acoustic Waves in Spotted Stars, 8 Jul 2015

Xuanyu Hu, Observing and Modelling the Dust Mantle Activity on Comet 67P / C.-G, 15 Jul 2015

Theodosios Chatzistergos, Photometric Calibration of Historical SHGs, 15 Jul 2015

Azaymi Siu, Anomalous Reversed Evershed Flow in a Sunspot Penumbra, 15 Jul 2015

Gesa Becker, Single-Station Seismic Noise Analysis in Preparation of the InSight SEIS Installation on Mars, 28 Oct 2015

Chaozhou Mou, Magnetic flux supplement to coronal bright points, 25 Nov 2015

Lei Lu, Comparison of Optical and Radio Observation of Coronal Mass Ejection, 25 Nov 2015

Ankit Barik, Spherical Couette Dynamos, 2 Dec 2015

Suzana de Souza, Non Local Heat Flux in Solar Flares, 2 Dec 2015

Helge Mißbach, Formation and Characterization of Abiogenic vs. Biogenic Organic Material, 9 Dec 2015

Kinga Albert, In-Orbit Calibration of the SO/PHI Instrument, 9 Dec 2015

Chi-Ju Wu, Reconstruction of Solar Total and Spectral Irradiance on Time Scales of Centuries to Millennia, 16 Dec 2015

Martin Bo Nielsen, Constraining Differential Rotation in Sun-Like Stars, 16 Dec 2015

Öffentliche Vorträge am MPS / *MPS Public Lectures*

Vorträge von Mitgliedern des MPS und von externen Vortragenden / *Talks by members of the MPS and by external speakers*

Saskia Hekker, Deutsche PhysikerInnen Tagung 2015: Unravelling stellar interiors, 15 Oct 2015

Anna Frebel (MIT, Cambridge, USA), Göttinger Literaturherbst: Auf der Suche nach den ältesten Sternen, 17 Oct 2015

Eberhard Grün (MPI für Kernphysik, Heidelberg, Germany), Kometenfieber: Kometenforschung von Giotto bis Rosetta, 5 Nov 2015

Carsten Güttler, Kometenfieber: Von Steilhängen und Staubfontänen. Die veränderlichen Landschaften des Rosetta-Kometen, 5 Nov 2015

6. Lehrtätigkeit / *Lectures*

Vorlesungen von MPS-Wissenschaftlern an Universitäten und anderen Institutionen
Lectures of MPS scientists at universities and other institutions

Ulrich Christensen, Walter Goetz, Paul Hartogh, Harald Krüger: Solar system science: The Planetary System, University of Goettingen, Germany, SS 2015

Laurent Gizon, Aaron Birch: Data Analysis in Astrophysics, University of Goettingen, Germany, WS 2014/15, SS 2015, WS 2015/16

Laurent Gizon, Robert Cameron, Ulrich Christensen, Hardi Peter: Solar System Science: The Central Star, University of Goettingen, Germany, WS 2014/15, WS 2015/16

Laurent Gizon: Physics of the Interior of the Sun and Stars, University of Goettingen, Germany, WS 2014/15, WS 2015/16

Laurent Gizon: Numerical experiments in stellar physics, University of Goettingen, Germany, SS 2015

Walter Goetz: Geowissentschaftliches Seminar, University of Goettingen, Germany, SS 2015

Stein Haaland: AGF 345, UNIS Svalbard, Norway, WS 2014/15, WS 2015/16

Harald Krüger, Miriam Rengel: Entstehung von Sonnensystemen/Origin of solar systems, University of Goettingen, Germany, WS 2015/16

Andreas Nathues: Einführung in das Sonnensystem, University of Clausthal, WS 2014/15

Hardi Peter: Good scientific practice: Ethical issues in the research environment, University of Goettingen, Germany, WS 2014/15, WS 2015/16

Hardi Peter, Joern Warnecke: Solar Eclipses and Physics of the Corona, University of Goettingen, Germany, SS15, WS 2015/16

Miriam Rengel: Herschel Data Processing for Newcomers, University of Goettingen, Germany, 16.-19.06.15

7. Tagungen und Workshops / *Conferences and workshops*

7.1 Organisation von Tagungen und Workshop (Mitglied SOC oder LOC, Mitorganisator, etc.) *Organization of conferences and workshops* (member SOC or LOC, co-organizer, etc.)

Atefeh Barekat: 14th PhDnet General Meeting, Göttingen, 22-24 Nov

Ankit Barik: 14th PhDnet General Meeting, Göttingen, 22-24 Nov

Andrea Bossmann: Deutsche Physikerinnentagung 2015, Themenschwerpunkt: Internationales Jahr des Lichts, Göttingen, 15 – 18 Oct

Jörg Büchner: 2nd International Sino-German Symposium on Solar Physics: Multi Waveband Observations and Modeling of Solar Activity, Bad Honnef, Germany, 31 Aug - 4 Sep

Laurent Gizon: Meeting on "Sunspot formation: theory, simulations and observations", Stockholm, Sweden, 9 – 13 Mar

Kick-off Workshop on "Advances in Seismology: a Dialogue Across Disciplines", Mumbai, India, 7 – 11 Dec

Martin Hilchenbach: COSIMA science team meeting, Göttingen, Germany, 11 - 14 Sep

Natalie Krivova: XXIX IAU General Assembly, FM 13, "Brightness variations of the Sun and Sun-like stars", Honolulu, Hawaii, USA, 5 – 6 Aug

Andreas Lagg: 2nd International Sino-German Symposium on Solar Physics: Multi Waveband Observations and Modeling of Solar Activity, Bad Honnef, Germany, 31 Aug - 4 Sep

Tino Riethmüller: 9th Sunrise Science Meeting, Göttingen, Germany, 28 – 29 Sep

Elias Roussos: Magnetospheres of Outer Planets 2015, Atlanta, USA, 1 – 5 Jun

Manfred Schüssler: Stellar and Planetary Dynamos, Göttingen, Germany, 26– 29 Mai

Alexander Shapiro: XXIX IAU General Assembly, FM 13, "Brightness variations of the Sun and Sun-like stars", Honolulu, Hawaii, USA, 5 – 6 Aug

Sami K. Solanki: 2nd International Sino-German Symposium on Solar Physics: Multi Waveband Observations and Modeling of Solar Activity, Bad Honnef, Germany, 31 Aug - 4 Sep

European Week of Astronomy and Space Science (EWASS) 2015, Tenerife, Spain, 22 – 26 Jun

ISSI Worshop of "Solar magnetic fields: from measurements towards understanding", Bern, Switzerland, 12 – 15 Jan

Jörn Warnecke: Planetary and Stellar Dynamos , Göttingen, Germany, 26 – 29 Mai

Sunspot formation: Theory, Simulations and Observation, Stockholm, Sweden, 9 – 13 Mar

Johannes Wicht: Dynamo Simulations in a Nutshell, Göttingen, Germany, 4 – 6 Nov

Thomas Wiegelmann: Deutsche Physikalische Gesellschaft - Frühjahrstagung, Wuppertal, Germany, 9 – 13 Mar

Annual Meeting of the Astronomische Gesellschaft, Splinter: Solar and stellar activity, Kiel, Germany, 14 – 18 Sep

7.2 Convener bei wissenschaftlichen Tagungen
Convener at scientific meetings

Jessica Agarwal: European Planetary Science Congress, Nantes, France, 27 Sep – 2 Oct

Jörg Büchner: EGU, Symposium "Theory and Simulation of Solar System Plasmas", Vienna, Austria, 17 Apr

International Conference on Space Plasma Simulation, Prague, Czech Republic, July

Patrick Daly: 25th Cluster Workshop, Venice, Italy, 12 – 16 Oct

Paul Hartogh: AOGS 12th Annual Meeting, Singapore, 2 – 7 Aug

Sakia Hekker, CoRoT-3 and Kepler KASC-7 joint meeting, Toulouse, France, 06 – 11 Jul

Natalie Krivova: XXIX IAU General Assembly, FM 13, "Brightness variations of the Sun and Sun-like stars", Honolulu, Hawaii, USA , 5 – 6 Aug

Norbert Krupp: AOGS 12th Annual Meeting, Singapore, 2 – 7 Aug

Urs Mall: EGU Cartography and GIS MTW3, Vienna, Austria, 9 – 17 Jun

Andreas Nathues: European Planetary Science Congress, Nantes, France, 27 Sep – 2 Oct

Elias Roussos: Magnetospheres of Outer Planets 2015, Atlanta, USA, 1 – 5 Jun

Sonja Schuh: Annual Meeting of the Astronomische Gesellschaft, "From the first quasars to life-bearing planets: From accretion physics to astrobiology", Kiel, Germany, 14 – 18 Sep

Deutsche Physikerinnentagung 2015, Themenschwerpunkt: Internationales Jahr des Lichts, Göttingen, Germany, 15 -18 Oct

Alexander Shapiro: XXIX IAU General Assembly, FM 13, "Brightness variations of the Sun and Sun-like stars", Honolulu, Hawaii, USA, 5 – 8 Aug

Open SOLPSEC discussion, Brussels, Belgium, 21 – 23 Sep

Johannes Wicht: EGU General Assembly 2015, Vienna, Austria, 12 – 17 Apr

Thomas Wiegelmann: DPG-Tagung, Berlin, Germany, 9 - 13 March

AG-Tagung, Splinter „Solar and stellar activity", Kiel, Germany, 14 – 18 Sep

8. Gutachtertätigkeit / *Review work*

8.1 Gutachtertätigkeit für wissenschaftliche Zeitschriften *Reviews for scientific journals*

Insgesamt wurden mehr als 135 Artikel für wissenschaftliche Zeitschriften von 37 Wissenschaftlern des MPS begutachtet.
In total more than 135 articles for scientific journals were reviewed by 37 different scientists of the MPS.

Gutachter (in alphabetischer Reihenfolge)**/ *Reviewers** (in alphabetical order)*:

A. Birch, R. Bučik, J. Büchner, R. Cameron, U. Christensen, W. Curdt, T. Duvall, A. Feller, M. Fränz, A. Gandorfer, S. Haaland, P. Hartogh, S. Hekker, J. Hirzberger, B. Inhester, D. Innes, N. Krivova, E. Kronberg, H. Krüger, N. Krupp, A. Lagg, A. Nathues, H. Peter, R. Roll, E. Roussos, M. Schüssler, S. Schuh, H. Schunker, A. Shapiro, S. Solanki, V. Vasyliunas, J.-B. Vincent, S. Warnecke, J. Wicht, T. Wiegelmann, K. Wilhelm, K.-L. Yeo

Zeitschriften (Anzahl Gutachten)/ *Journals (number of reviews):*

Astronomy & Astrophysics (22)
Journal of Geophysical Research (21)
Astrophysical Journal (18)
Solar Physics (10)
Advances in Space Research (7)
Geophysical Research Letters (7)
Icarus (6)
Planetary & Space Science (5)
Annales Geophysicae (4)
Physics of Plasmas (4)
Nonlinear Processes in Geophysics (4)

Astronomische Nachrichten, Journal of Fluid Mechanics, Monthly Notices of the Royal Astronomical Society, Progress in Earth and Planetary Science, Space Science Reviews (2 each)

Acta Astronautica, Astronomy and Computing, Astronomical Journal, Astronomy Letters (Pis'ma v Astronomicheskii Zhurnal), Frontiers, Geophysical Journal International, JASR, Journal of Geodynamics, Journal of Space Weather and Space Climate, Journal of Turbulance, Nature Communications, Nature Physical Science, Proceedings of the National Academy of Sciences, Science, Space Weather (1 each)

8.2 Gutachtertätigkeit für Vorschläge und Anträge
Reviews of proposals

Insgesamt wurden 177 Vorschläge und Anträge von 20 Wissenschaftlern des MPS begutachtet.
In total 177 proposals were reviewed by 20 different scientists of the MPS.

Gutachter (in alphabetischer Reihenfolge)**/ *Reviewer*** *(in alphabetical order)***:**

A. Birch, H. Böhnhardt, J. Büchner, R. Cameron, U. Christensen, A. Feller, M. Fränz, W. Götz, P. Gutiérrez-Marqués, P. Hartogh, S. Hekker, B. Knapmeyer-Endrun, E. Kronberg, N. Krupp, H. Peter, E. Roussos, A. Shapiro, S. K. Solanki, J. Wicht, T. Wiegelmann

Organisation (Anzahl Gutachten)/ ***Organization (number of reviews):***

Sofia Observing Time Allocation Committee: Cycle 4 (80)

DFG (German Science Foundation), Germany (45)

NASA, USA (22)

SRAC (Swedish National Space Board), Sweden (5)

National Science Foundation, USA; King Abdullah University, Saudi Arabia; Fonds de la Recherche Scientifique.-FNRS, Belgium) (2 each)

Agenzia Spaziale Italiana, Italy; Czech Science Foundation, Czech Republic; DAAD (German Academic Exchange Service, Germany); European Research Council; ETH Zürich, Sitzerland; Humboldt Foundation, Germany; INCITE, USA; Leibniz-Gemeinschaft, Germany; Leibniz Rechenzentrum der Bayerischen Akademie, Germany; Narodowe Centrum Nauki, Poland; National Solar Observatory, USA; NRF - CPRR, South Africa; Prace European Supercomputers; Research Foundation Flanders (FWO), Belgium; Spanish National Research Council CSIC, Spain; STFC, UK; UK Space Agency, UK; University of Vienna (1 each)

9. Herausgebertätigkeit / *Editorship*

Hermann Böhnhardt: *"*Earth, Moon and Planets" (Editorial board)

Ulrich Christensen: "Physics of the Earth & Planetary Interiors" (Editorial board)

Stein Haaland: AGU Monograph: Dawn-dusk asymmetries in planetary plasma environments

Natalie Krivova: ‘‘Journal of Space Weather and Space Climate" (Editorial board)

‘‘Journal of Space Weather and Space Climate" Topical Issue "Brightness Variations of the Sun and Sun-like Stars and Resulting Influences on their Environments" (Editor in Chief)

Proceedings of the IAU XXIX General Assembly, Astronomy in Focus Vol. 1

Norbert Krupp: "Plasma Sources of Solar System Magnetospheres", Editors: A. F. Nagy, M. Blanc, C. R. Chappell, and N. Krupp, Space Sciences Series of ISSI, Volume 52

"Saturn in the 21st century", Editors: K. Baines, M. Flasar, N. Krupp, and T. Stallard, Cambridge University Press

Hardi Peter: "Astronomy & Astrophysics" (Editorial board)

Elias Roussos: "Annales Geophysicae" (Editorial board)

Manfred Schüssler: "Living Reviews in Solar Physics" (Editorial board)

Alexander Shapiro: Proceedings of the IAU XXIX General Assembly, Astronomy in Focus Vol. 1

Sami K. Solanki: "Living Reviews in Solar Physics" (Editor-in-Chief)

"Solar Physics" (Editorial board)

Johannes Wicht: "International Journal of Geomathematics" (Editorial board)

10. Mitgliedschaft in wissenschaftlichen Gremien / *Membership in scientific councils*

Hermann Böhnhardt: Committee on Space Research (COSPAR)

Jörg Büchner: German Physical Society (DPG), Vice-chair of the extraterrestrial physics branch
International Working group "Living with a Star" (ILWS) – German representative
Arbeitsgemeinschaft für Extraterretrische Forschung, Vice-chair
Steering Committee of the Max-Planck-Princeton Center for Plasma Physics

Robert Cameron: HAO External Advisory Committee

***Ulrich Christensen*:** Steering Board of the Collaborative Research Center (SFB 963) "Astrophysical Flow Instabilities and Turbulence"
Göttingen Research Council, Board Member,
Committee for high pressure research in the geosciences of the Bavarian Academy of Sciences (Advisory Board to the Bayerisches Geoinstitut, Bayreuth)
Göttingen Academy of Sciences
German National Academy of Sciences (Leopoldina)

Laurent Gizon: Goettingen Research Council, Board Member
European Solar Physics Division of the European Physical Society, Board Member
European Helio- and Asteroseismology Network, Board Member
Board Member, PLATO Mission Consortium

Paul Hartogh: ALOMAR Scientific Advisory Committee (ASAC)

Saskia Hekker: Secretary of IAU Commission G4

Natalie Krivova: Organising Committee of the IAU Commission 12 "Solar Radiation and Structure"
President of the Organising Committee of IAU Commission E1
Member of the Steering Committee of IAU Division E

Andreas Lagg: Telescope Allocation Committee for GREGOR and VTT (Teide Observatory)

Hardi Peter: Solar System Exploration Working Group (SSEWG) at ESA
Programmausschusses Erforschung des Weltraums, DLR (Guest)

Manfred Schüssler: Science Advisory Committee, Istituto Ricerche Solari, Locarno, Schweiz

Sonja Schuh: German Astronomical Society (AG), elected member of the Executive Committee
AstroFemaleNetwork (AFN), working group within the AG, elected speaker
German SOFIA Educational Working Group, apointed board member
Research Training Group "Extrasolar Planets and their Host Stars" (GRK1351), appointed board member
E+ Erasmus mundus joint master degree programme Astromundus, appointed member of Extended Consortium Committee, appointed member of the Quality Evaluation Committee

Alexander Shapiro: IAU Commission E1 Working Group "Solar Irradiance", Co-chair
ESA SOLAR Topical Team, chair

Sami K. Solanki: Committee on Space Research (COSPAR)
Space Science Advisory Committee (SSAC) of ESA
Governing Board of EU's project SolarNet
Scientific Advisory Committee of the Instituto de Astrofísica de Canarias (IAC)

National Representative of SCOSTEP

Permanent Representative of President of MPG in the Senate of DLR

Program Committee “Space Research” of DLR

Program Commission “Extraterrestrial Physics” of DLR

Scientific Advisory Committee of the Istituto Ricerche Solari Locarno (IRSOL)

Jean-Baptistse Vincent: ANEP (National Evaluation an Foresight Agency), Spain

Thomas Wiegelmann: Arbeitsgemeinschaft für Extraterretrische Forschung, elected chair and head of poster and talk price committee

German Physical Society (DPG), section “Materie und Kosmos”, Elected co-speaker

11. Auszeichnungen / *Awards*

George Angelou: High Commendation for PhD thesis (Astronomical Society of Australia)

Sakia Hekker: MERAC Prize 2015 for the Best Early Career Researcher in Observational Astrophysics (European Astronomical Society)

Sami Solanki: Julius Bartels Medal 2015 for outstanding research in solar-terrestrial sciences (European Geophysics Union)