Krishnendu Mandal

Curriculum Vitæ

	Personal Details
Nationality	Indian
Present	Postdoc at Max-Planck Institute for Solar System Research
Employment	
Email Id.	mandal@mps.mpg.de; krishnendum218@gmail.com
	Education
2014 - 2019	Ph.D. in Physics
	Tata Institute for Fundamental Research, Mumbai
2012 - 2014	M.Sc. in Physics
	Indian Institute of Technology, Kanpur
2009 - 2012	B.Sc.(Honours) in Physics
	Ramakrishna Mission Vidyamandira
	A College under University of Calcutta
	Fellowships
2009-2014	Inspire Scholarship , Department of Science and Technology, Government of India.
	Computer skills
Languages	Fortran, C, Python.
	High performance computing
	Teaching Experience
Autumn 2016	TeachingAssistant.Course:Mathematical MethodsInstructor:Dr. Shravan HanasogeInstitute:TIFR
	Masters Project
Title	To Find an efficient Chiral Gauge Invariant Lagranginan for Lattice Gauge

Theory

Research Interests

Studying solar interior dynamics e.g. differential rotation, meridional flow and Rossby waves using helioseismology.

Publications

- Finite-frequency Sensitivity Kernels in Spherical Geometry for Time-Distance Helioseismology
 Krishnendu Mandal, Jishnu Bhattacharya, Samrat Halder, Shravan Hanasoge The Astrophysical Journal, Volume 842, Issue 2, article id. 89, 11 pp. (2017) arXiv:1705.04020 [astro-ph.SR].
- Helioseismic Inversion to Infer the Depth Profile of Solar Meridional Flow using Spherical Born Kernels Krishnendu Mandal, Shravan Hanasoge, S. P. Rajaguru, H. M. Antia The Astrophysical Journal, Volume 863, Issue 1, article id. 39, 10 pp. (2018)

arXiv:1807.00314 [astro-ph.SR].

- 3. Detection of Rossby Waves in the Sun using Normal-mode Coupling Shravan Hanasoge and Krishnendu Mandal The Astrophysical Journal Letters, Volume 871, Issue 2, article id. L32, 5 pp. (2019) arXiv:1901.06479 [astro-ph.SR]
- 4. Properties of Solar Rossby Waves from Normal Mode Coupling and Characterizing Its Systematics Krishnendu Mandal and Shravan Hanasoge The Astrophysical Journal, Volume 891, Number 2 (2020)

- Conferences/Workshops Attended

- Mar 2019 Second Max-Planck Partner Group Program, Mumbai, India.
- Feb 2018 IAUS 340, Jaipur, India.
- Sep 2017 ESPM 15, Budapest, Hungary.
- Mar 2017 ASI 2017, Jaipur, India.
- May 2016 ASI 2016, University of Kashmir, Srinagar, India.
- Dec 2015 Advances in Seismology, TIFR, Mumbai, India.

Collaborative Visits

May 2017 Max Planck Institute for Solar System Research, Göttingen, Germany