CV: Niranjana Shankarappa

niranjanats@arizona.edu

Education

University of Arizona **Tucson, USA**
PhD, Physics *August 2019 – present*
Thesis: *Modelling dissipation of turbulence in solar wind*
Advisor: Kristopher G Klein

Indian Institute of Science Education and Research (IISER) **Pune, India**
BS-MS, Physics *2014 - 2019*
MS Thesis: *The role of plasma heating and expansion in the energetics of solar CMEs*
Advisor: Prasad Subramanian

Fellowships

Kishore Vaigyanik Protsahan Yojana (KVPY) Fellow **2014 - 2019**
KVPY, Indian Institute of Science
It is a highly competitive fellowship awarded by the Government of India to encourage undergraduates to pursue research careers in basic sciences.

Publications

- Niranjana Shankarappa, Kristopher G. Klein, and Mihailo M Martinović. Estimation of turbulent proton and electron heating rates via Landau damping constrained by Parker Solar Probe observations. *Accepted in The Astrophysics Journal*, page arXiv:2301.09713, January 2023
- Debesh Bhattacharjee, Prasad Subramanian, Angelos Vourlidas, Teresa Nieves-Chinchilla, Niranjana Thejaswi, and Nishtha Sachdeva. On the specific energy and pressure in near-Earth magnetic clouds. *Accepted in Astronomy and Astrophysics*, page arXiv:2210.16571, October 2022

Conferences

AGU **Chicago**
Relative heating of ions and electrons in the young solar wind due to turbulent dissipation mediated by Landau damping *December 2022*

SHINE **Honululu**
Relative heating of ions and electrons in the young solar wind due to turbulent dissipation mediated by Landau damping *June - July 2022*

Parker Two **APL, JHU**
Relative heating of ions and electrons in the young solar wind due to turbulent dissipation mediated through Landau damping *June 2022*

AGU **New Orleans**
Modeling Proton and Electron Heating Rates in Early Parker Solar Probe Encounters *December 2021*

Parker One **Online**
Estimation of relative heating of ions and electrons in the young solar wind *June 2021*

Parker Solar Probe Scholars meeting **Online**
Relative heating of ions and electrons in the young solar wind due to turbulent dissipation mediated through Landau damping *April 2021*

AGU **Online**
Relative heating of ions and electrons in the young solar wind due to turbulent dissipation mediated via Landau damping *December 2020*

APS Division of Plasma Physics **Online**
The relative heating of ions and electrons due to turbulent dissipation through Landau damping *November 2020*

National Space Science Symposium (NSSS)-2019 **Pune University, India**
'Why do solar coronal mass ejections expand as they propagate outwards?' *January 2019*

Computation skills

- **Programming Languages:** FORTRAN, Python, bash, MATLAB
- **Other skills:** High Performance Computing, gnuplot

Teaching experience

- I have taught Introductory Mechanics Lab to undergraduates for an year.
- I have taught Physics and Mathematics to high school students through an online tutoring platform called 'Gotit'.