

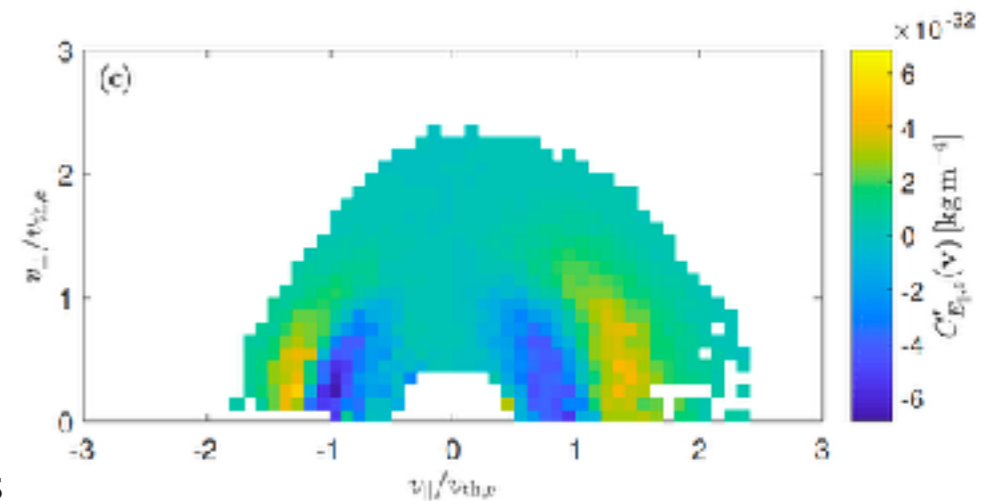
Postdoctoral Research Position

The Department of Physics and Astronomy at the University of Iowa invites applications for a Postdoctoral Research Position in the field of Space Physics. The position involves the analysis of spacecraft observations from current and upcoming spacecraft missions (MMS, ARTEMIS, MAVEN, Wind, Parker Solar Probe) using new techniques based on kinetic plasma theory to understand plasma heating and particle acceleration by turbulence in heliospheric plasmas. The candidate will make detailed comparison of the results of the observational analyses to kinetic numerical simulations of plasma turbulence and to theoretical expectations. The successful candidate will have a Ph.D. in physics, or a closely related field, with experience in space physics or plasma physics research. Preference will be given to those with experience in the observational analysis of spacecraft measurements. The position is for two years, with potential renewal for a third year.

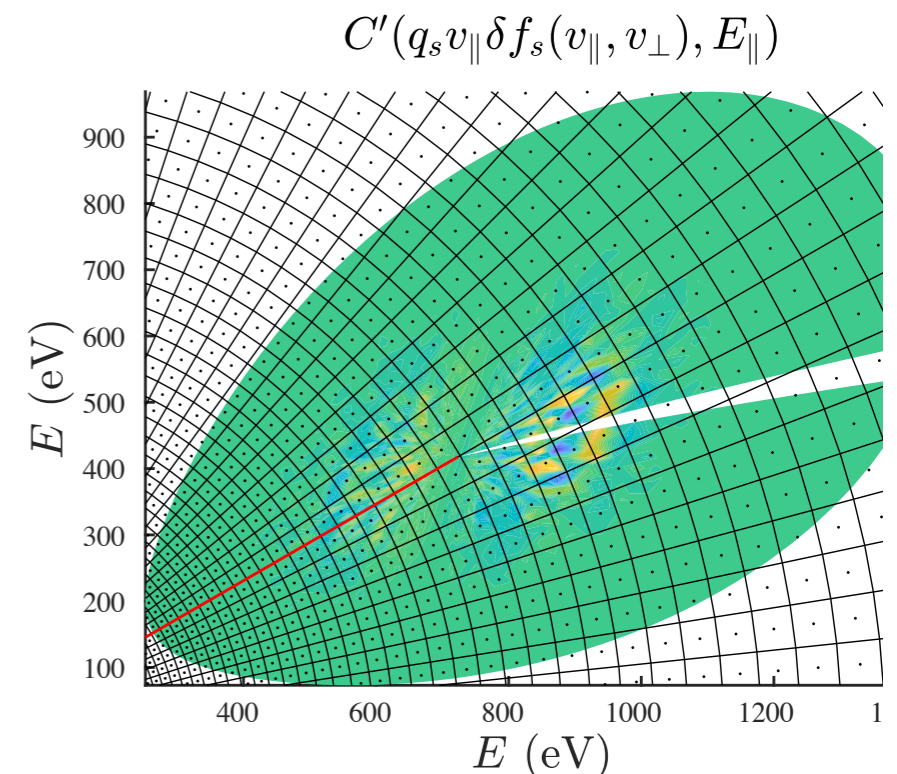
Applicants should send (in PDF format, please) a cover letter, CV, and statement of research interests and arrange for at least two letters of recommendation to be sent via e-mail to Professor Howes at gregory-howes@uiowa.edu; inquiries may be sent to the same address. Review of applications will begin on July 15, 2018, but applications will be accepted on a continuing basis until the position is filled. The start date is flexible, but may be as early as August 15, 2018.

Contact: Professor Gregory Howes, gregory-howes@uiowa.edu
Department of Physics and Astronomy, University of Iowa

The Department of Physics and Astronomy and the College of Liberal Arts & Sciences are strongly committed to diversity; the strategic plans of the University and College reflect this commitment. All qualified applicants are encouraged to apply and will receive consideration for employment free from discrimination on the basis of race, creed, color, national origin, age, sex, pregnancy, sexual orientation, gender identity, genetic information, religion, associational preference, status as a qualified individual with a disability, or status as a protected veteran. The University of Iowa is an equal opportunity/affirmative action employer.



Field-particle correlation of MMS electron velocity distributions with parallel electric field measurements, indicating energization of Landau resonant electrons



Mapping of AstroGK kinetic turbulence simulation data to the proposed THOR spacecraft instrumental resolution