

RAS Discussion Meeting Schedule

Energetic particle acceleration and heliosphere-interstellar medium interactions: preparing for IMAP

12th January 2024 – Burlington House, London

Time (GMT)	Chair: Silvia Dalla	
10:30		Opening Remarks
10:35	Matina Gkioulidou (Invited)	<i>Introduction to IMAP</i>
11:05	Ravindra Desai	<i>Global simulations of the interaction of the heliosphere with the interstellar medium: Initial results</i>
11:25	Coffee Break	
11:30	Tim Horbury	<i>The IMAP magnetometer – multi-spacecraft science and space weather predictions</i>
11:50	Emma Davies	<i>Predicting geoeffectiveness of CMEs using Solar Orbiter real-time upstream solar wind data</i>
12:10	Lorenzo Matteini	<i>Large-amplitude spherically polarised magnetic field fluctuations in the solar wind: possible implications for the transport of energetic particles?</i>
12:30	Lunch	
	Chair: Tim Horbury	
13:30	Heli Hietala (Invited)	<i>Energetic particle acceleration at shocks</i>
14:00	Ruth Hyndman	<i>Multi-spacecraft observations of solar energetic particle event decay phases</i>
14:20	Coffee Break	
14:25	Justyna Sokol (Solicited)	<i>Interstellar neutrals, pickup ions, and energetic neutral atoms throughout the heliosphere</i>

14:45	Domenico Trotta	<i>Shock irregularities and their role in the production of energetic particles</i>
15:05	Timo Laitinen	<i>Effect of turbulent magnetic field line meandering on solar energetic particle propagation</i>
15:25	Discussion: how the UK community could get involved in IMAP	
15:30	Closing Remarks	
15:35	End of Meeting	