

SPINE XVII WORKSHOP AGENDA

Uppsala, Jan 17-19, 2011

(Version 2, 2011-01-14)

Monday, January 17, 14:00 – 18:00

- 14:00 Welcome & logistics
Anders Eriksson, IRF Uppsala, SE
- 14:05 SPIS science project
Pierre Sarrailh, ONERA, FR
- 14:15 Current SPIS capabilities
Jean-Charles Matéo-Vélez, ONERA, FR
- 14:55 Focus on SPIS limitations
Pierre Sarrailh, ONERA, FR
- 15:15 SPIS overall development
Jean-Charles Matéo-Vélez, ONERA, FR
- 15:30 Coffee break
- 15:50 Simulation needs for field and probe instruments
Anders Eriksson, IRF Uppsala, SE
- 16:15 Simulation needs for particle instruments
Vincent Génot, IRAP, FR
- 16:40 Instrument simulations for tenuous plasmas: what to learn for SPIS?
Chris Cully, IRF Uppsala, SE
- 17:05 Space craft charging and electric sheath in a magnetised plasma
Richard Marchand, U Alberta, CA
- 17:30 Comparison of kinetic simulation of magnetic reconnection with in-situ observations and planned SPIS benchmarking activities
Stefano Markidis, KU Leuven, BE
- 18:00 End of session

Tuesday, January 18, 9:00 – 18:00

User presentations

- 09:00 SPIS simulations in support of science projects and their limitations
David Rodgers, ESTEC, NL
- 09:25 Spacecraft-plasma interactions: lessons learnt from the Cluster Ion Spectrometry
Iannis Dandouras, IRAP, FR
- 09:50 Possible use of Cluster data for validation of SPINE's SPIS modelling software, and desirable near-term applications to Solar Orbiter to assist in electron instrument design
Andrew Fazakerley, MSSL, UK
- 10:15 Coffee break
- 10:35 JGO mission and status
Arno Wielders, ESTEC, NL
- 11:00 Simulation needs for JGO in the light of Cassini experiences
Jan-Erik Wahlund, IRF, SE
- 11:25 Simulations of spacecraft potential measurements on Cassini
Thomas Nilsson, IRF, SE
- 11:40 A study of Cassini spacecraft potential using SPINE's SPIS modelling software
Gethyn Lewis, MSSL, UK
- 12:05 Cassini LP photoelectron calibration and its use
Michiko Morooka, IRF SE
- 12:30 Lunch break
- 14:00 Spacecraft outgassing: Rosetta results
Berhard Schläppi, U Bern, CH
- 14:20 Analytic modelling of Rosetta spacecraft potential measurements based on SPIS simulations
Christian Hånberg, IRF, SE
- 14:45 Ion measurements with the Mass Spectrum Analyzer onboard Bepi Colombo MMO
Dominique Delcourt, LPP, FR

- 15:10 The Solar Orbiter RPW experiment: needs for spacecraft potential modelling
Milan Maksimovic, OBSPM, FR
- 15:35 Solar Orbiter and Solar Probe Plus: problems of wake and electromagnetic perturbations
Vladimir Krasnoselskikh, LPCE, FR
- 16:00 Coffee break
- 16:20 Review of Activities at TASI-Fi on S/C charging and Plasma Environment Monitoring
Marco Capacci, Thales Alenia, IT
- 16:45 SEPS - EUV and plasma sensor, typical measurement results and modeling
Raimund Brunner and Werner Konz, Fraunhofer Institut, DE
- 17:10 Modelling plasma-natural surface-lander interactions with spis
Fabrice Cipriani, ESTEC, NL
- 17:35 Charging of planetary surfaces and dust particles
Nicolas André and Vincent Génot, IRAP, FR
- 18:00 End of session

Wednesday, January 19, 9:00 – 12:30

Discussion, conclusion, plans

09:00 Round table discussion on new modelling requirements.

12:30 End of meeting