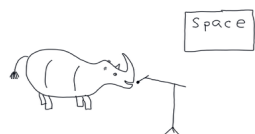


## Swedish Space Plasma Meeting

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Dinner

# Swedish Space Plasma Meeting

Umeå 9-10 June 2022



## Thursday 9 June

### Overviews

13:00	Herbert Gunell	<i>Practicalities</i>
13:05	Yuri Khotyaintsev	IRF Uppsala overview
13:15	Andris Vaivads	KTH overview
13:25	Maria Hamrin	UmU overview

### Talks

**(10 min + 2 min questions)**

13:36	Lucian Spitzner (Lund)	Plasma environments in exoplanet transmission spectroscopy
13:48	Gabriella Stenberg Wieser (IRF-K)	Ion heating caused by waves at Venus
14:00	Sebastián Rojas Mata (IRF-K)	Venus Bow Shock and Magnetosheath Physics
14:12	Sara Östman (UmU)	Variations in Mars' Bow Shock Ramp and Implications on Thermo
14:24	Joshua Dreyer (IRF-U)	Deriving mixing ratios of heavier neutral species in Saturn's ionospheric light ion measurements
14:36	Shahab Fatemi (UmU)	Plasma and neutral environment of Ganymede
14:48	<b>Coffee break, posters</b>	

**Chair: Anita Kullen**

### Talks

**(10 min + 2 min questions)**

15:20	Hans Nilsson (IRF-K)	Upstream solar wind reconstruction at comet 67P and the electric field at the observation point
15:32	Hayley Williamson (IRF-K)	Comet sheath observations around comet 67P/Churyumov-Gerasimenko
15:44	Anja Möslinger (IRF-K)	Partial Ring Distributions of Solar Wind Protons at Comet 67P
15:56	Elias Odelstad (IRF-U)	Ion-ion cross-field instability of lower hybrid waves in the inner coma of 67P
16:08	Elisabeth Werner (IRF-U)	Solar Orbiter observations of interacting interplanetary transients
16:20	Sabrina Tigik Ferrao (KTH)	Electron scale wave-activity at small heliocentric distances using Solar Probe data
16:32	Luca Sorriso-Valvo (IRF-U)	Radial evolution of turbulence in the inner heliosphere
16:44	Henriette Trollvik (KTH)	Progress with solar wind magnetic hole investigations
16:56	Jordi Boldu (IRF-U)	Langmuir waves associated with magnetic holes in the solar wind
17:08	<b>Short break</b>	

**Chair: Gabriella Stenberg Wieser**

### Science blitz

**(2 min talks)**

17:30-18:00	Andrew Dimmock (IRF-U)	Mirror mode storms observed by Solar Orbiter
	Konstantin Kim (IRF-U)	Titan's ionosphere as seen from Cassini-Huygens
	Eva Krämer (UmU)	A walk through the zoo of waves in magnetosheath jets found with Solar Orbiter
	Timo Pitkänen (UmU)	Survey of magnetic forces associated with earthward bursty bulk flows measured by MMS 2017-2021 (also as poster)
	Nickolay Ivchenko (KTH)	ALPHA project
	Audrey Schillings (UmU)	dB/dt during space weather events
	Sushen Joshi (KTH)	Observations of Uranus' upper hydrogen atmosphere
	Daniel Graham (IRF-U)	Wave particle interactions at Earth's magnetopause
	Romain Canu-Blot (IRF-K)	Negative Ions at the Lunar Surface: measuring the unmeasured.
	Stephan Buchert (IRF-U)	Joule Heating and the Atmospheric Dynamo (also as poster)
	Simon Thor (KTH)	Conjugacy of multiple cusp-aligned TPAs (also as poster)

**Chair: Shahab Fatemi**

19:30 **Dinner** [See dinner page](#)

## Friday 10 June

### Talks

**(10 min + 2 min questions)**

08:00 Martin Lindberg (KTH)  
 08:12 Andreas Johlander (IRF-U)  
 08:24 Zhe Wang (KTH)  
 08:36 Savvas Raptis (KTH)  
 08:48 Ida Svenningsson (IRF-U)  
 09:00 Ahmad Lalti (IRF-U)  
 09:12 Konrad Steinvall (IRF-U)  
 09:24 Louis Richard (IRF-U)  
 09:36 Yoshihiro Yokoyama (IRF-K)  
 09:48 Herbert Gunell  
 09:55 [Group photo](#)  
 10:00 **Coffee break, posters**

**Chair: Daniel Graham**

Electron energization and entropy generation at quasi-perpendicular shocks  
 Electron heating scales in shocks  
 MMS observation of energetic electron acceleration within magnetosheath during turbulent reconnection  
 Magnetosheath jets - classes & formation mechanisms  
 Kinetic generation of whistler waves in the turbulent magnetosheath  
 Measurement of short (Debye length) scale electrostatic waves with a new instrument:  
 Problems and possible mitigation  
 Statistics of Lower-hybrid waves at Earth's magnetopause  
 Occurrence of Dipolarization Fronts at Magnetotail Plasma Jets  
 Three-dimensional modelling of the artificial barium clouds dynamics during the BROR rocket experiences.  
*Splinter organisation, next meeting*

### Splinters 10:30- lunch

Splinter A Hans Nilsson  
 Splinter B Savvas Raptis  
 Splinter C Martin Lindberg  
 Splinter D Nickolay Ivchenko  
 Splinter E Herbert Gunell

[Click for abstracts](#)

Electric potential differences at space boundaries  
 Distribution functions & particle moments of high speed magnetosheath  
 Electron acceleration at quasi-perpendicular shocks  
 Sounding rockets  
 Diamagnetic cavities & min-magnetospheres in laser-plasma experiments

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Updated 2022-06-01