

# Swedish Space Physics Meeting, KTH, 2020

March 3

## Overviews (Salongen)

13:00	Introductory remarks	Lorenz Roth
13:05-13:30	UmU overview	Maria Hamrin
13:25-13:50	IRF RPF overview	Yuri Khotyaintsev
13:50-14:15	KTH overview	Andris Vaivads
14:15-14:30	IRF STAR overview	Hans Nilsson
14:30-14:55	IRF SSPT overview	Stas Barabash

## Coffee (Salongen)

14:55-15:30

## Science talks (Salongen)

15:30-15:45	Asymmetric reconnection at the terrestrial bow shock	Maria Hamrin
15:45-16:00	Polarisation of a small scale cometary plasma environment: Particle in Cell simulations	Herbert Gunell
16:00-16:15	The effect of spacecraft charging on low-energy ion measurements around comet 67P/Churyumov-Gerasimenko	Sofia Bergman
16:15-16:30	Plasma waves outside the diamagnetic cavity of comet 67P	Elias Odelstad
16:30-16:40	Evolution of high-speed jets in the magnetosheath	Oleksandr Goncharov
16:40-16:50	<i>Leg stretcher</i>	
16:50-17:00	Magnetic gradient wave forcing - the cosmic plasma gun. Velocity, mass, charge and beam criteria	Rickard Lundin
17:00-17:10	Regional variations of the geoelectric field and its significance to geomagnetically induced currents	Andrew Dimmock
17:10-17:20	Saturn's conductive equator	Oleg Shebanits
17:20-17:25	TBD	Lei Cai
17:25-17:30	Geoeffectiveness of magnetosheath jets	Linus Norenus
17:30-17:35	Do magnetosheath jets cause flux transfer events?	Simon Thor
17:35-17:40	Observations of low energy ions around the diamagnetic cavity of comet 67P	Gabriella Stenberg Wieser
17:40-17:45	Influences of Mars's crustal fields on the ionosphere	David Andrews
17:45-17:50	Ionospheric ions in the magnetosphere: where they are and what they do.	Mats André
17:50-17:55	Effect of whistler precursor waves on energy dissipation in supercritical quasi-perpendicular collisionless shocks	Ahmad Lalti

17:55-18:00	Short-period current sheet flapping	Louis Richard
18:00-18:05	Observations of plasma waves in the multiple X-line reconnection at the magnetopause	Zhihong Zhong
18:05-18:10	MMS observations of the electron diffusion region structure during magnetic reconnection	Giulia Cozzani

Wrap-up (Salongen) 18:10-18:15

March 4

Science talks (Salongen)

08:30-08:45	Non-Maxwellianity of electron distributions and their source regions	Daniel Graham
08:45-09:00	Degenerate induced magnetospheres: importance and physics	Stas Barabash
09:00-09:15	Study of kinetic effects in hybrid Vlasov simulations of Kelvin-Helmholtz instability	Adriana Settino
09:15-09:30	Rosetta solar array panels and their bittersweet influence on Langmuir probe measurements	Fredrik Johansson
09:30-09:45	TBD	Soheil Sadeghi
09:45-10:00	On the effective recombination coefficient in Saturn's ionosphere	Joshua Dreyer
10:00-10:10	Electron temperatures of Saturn's ionosphere	Marine Poizat
10:10-10:15	Non-conjugacy of transpolar arcs	Anita Kullen
10:15-10:20	Mars Express Observations of Cold Plasma Structures in the Martian Magnetotail.	Katerina Stergiopoulou

Coffee

10:15-10:40

Splinters (Salongen, Ivar Herlitz, Kosmos, Laila Ohlgren, Fredrik Gustavson)

10:40-11:45

Suggested splinters:

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|---|-----------------|
| - Cometary physics  | Elias Odelstad  |
| - Electron heating at Earth's quasi-perpendicular bow shock | Martin Lindberg |
| - Planetary sciences  | David Andrews   |
| - Dusty plasmas in space                                    | Oleg Shebanits  |
| - Further splinters TBD                                     | TBD             |

Wrap-up (Salongen) 11:45-12:00