

GDRI "Helio-plasmas" Workshop
IKI, Moscow, Russia
November 22 – 24, 2016

Monday 21, November

Arriving

Tuesday, 22, November

09:30-09:40 **Introduction**

Zelenyi L. M., B. Lavraud

Inner magnetosphere and wave-particle interactions-I

Chair: **B. Lavraud**

09:40 - 10:10 **J.-L. Pinçon** "TARANIS: Mission status and data mission center"

10:10 - 10:40 **S. Klimov et al.** "Registration in the ionosphere of ELF-VLF electromagnetic emissions of terrestrial origin. The Microsatellite "Chibis-M", "Trabant"."

10:40 - 11:10 **A. Chilingarian** "High Energy Physics in Atmosphere (HEPA): coming to a mature state."

11:10 - 11:30 Coffee break

Inner magnetosphere and wave-particle interactions-II

Chair: **V. Krasnoselskih**

11:30 - 12:00 **M. Dolgonosov** "Investigation of atmospheric high-energy phenomena on-board International Space Station: microsatellite "Chibis-AI" and VHF interferometer "Kite"

12:00 - 12:30 **D. Shklyar and E. Titova** "Resonant interaction of quasi-electrostatic whistler mode waves with energetic protons in the magnetosphere."

12:30 - 13:00 **M. Parrot** "Equatorial noise observed by DEMETER in the ionosphere during large magnetic storms"

13:00 - 14:30 Lunch

Inner magnetosphere and wave-particle interactions -III

Chair: **D. Shklyar**

15:00 - 15:20 **Mogilevsky et al.** "AKR as an indicator of ionosphere conditions"

15:20 - 15:40 **Burinskaya T.M. and M. Shevelev** " Generation of Auroral Kilometric Radiation in a Dipole Magnetic Field - 3-D approach"

15:40 - 16:00 **Chernyshov A. et al.** "Aspects of generation of broadband waves of the ion-cyclotron and the ion-acoustic type in the high-latitude ionosphere."

16:00 - 16:30 **L.M. Zelenyi** "Russian Space Scientific Program: perspectives for future

16:30 - 16:45 **B. Lavraud** "CDPP activities: Promoting research and education in space physics"

16:45 - 17:30 **Coffee break and Discussions in project teams**

Wednesday, 23, November

Energy transformation and dissipation in space plasma

Chair: **D. Delcourt**

09:30 - 10:00 **B. Lavraud** "Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause"

10:00 - 10:30 **V. Krasnoselskih** "Beam plasma interaction in randomly inhomogeneous solar wind"

10:30 - 11:00 **C. Jacquy** "Thin current sheet and plasma jet observed within a « FTE » by MMS"

11:00 - 11:30 Coffee break

Acceleration and transport processes in space plasma-I

Chair: **E. Grigorenko**

11:30 - 12:00 **D. Delcourt** " Quasi-adiabatic transport during reconfigurations of the magnetotail"

12:00 - 12:30 **H.V. Malova et al.** "Ion acceleration in the course of magnetic dipolarizations"

12:30 - 13:00 **F. Catapano** "Proton and heavy ion acceleration by stochastic fluctuations in the Earth's magnetotail"

13:00 -14:30 Lunch

Free time and joined dinner

Thursday, 24 November

Acceleration and transport processes in space plasma-II

Chair: **J.-L. Pinçon**

09:30 - 10:00 **C. Jacquy** "Magnetic structures observed in the deep tail associated with "Planetary Mass Ejection » during substorms"

10:00 - 10:30 **E. Grigorenko et al.** "Electron heating and T_p/T_e variations during magnetic dipolarizations"

10:30 - 11:00 **G. Fruit** "Electrostatic drift wave instability in a 2D current sheet - the role of bouncing electrons"

11:00 - 11:30 Coffee break

Heliosphere and Planetary Studies-I

Chair: **O. Korablev**

11:30 - 11:50 **V. Izmodenov** "Recent achievements in the 3D kinetic-MHD modeling of the global heliosphere"

11:50 - 12:10 **I. Balyukin** "Modeling of secondary interstellar oxygen in the heliosphere and comparison with IBEX-Lo observations"

12:10 - 12:30 **O. A. Katushkina et al.** "Remote sensing of the heliospheric boundary: analysis of the Voyager 1/UVS data on Lyman-alpha emission."

12:30 - 13:00 **F. Montmessin** "A first cut at the Micro-ARES data collected at Mars onboard the ExoMars mission"

13:00 - 14:30 Lunch

Heliosphere and Planetary Studies-I

Chair: **F. Montmessin**

14:30 - 15:00 **O. Korablev** "The Atmospheric Chemistry Suite (ACS) onboard ExoMars 2016"

15:00 - 15:30 **F. Lefèvre et al.** "Ozone on Mars: recent observations and relationship with water vapour"

15:30 - 16:00 **A. Fedorova** "The latest results of SPICAM IR on Mars-Express"

16:00 - 16:30 **J.-L. Bertaux** "Influence of Venus topography on the zonal wind and UV albedo at cloud top level: the role of stationary gravity waves"

16:30-17:30 Coffee and concluding remarks

Friday, 25 November

Departure