

Program of the Workshop

April 14, 2017. Friday

08:30-09:00	Registration of participants. Second floor hall in Institute of Physics, KFU
09:00-09:15	Opening Ceremony

Plenary session. Chairman: Dr. Igor Nasyrov (Russia)

09:15-09:45	Belashov, V. Solitons' dynamics in regions with sharp gradients of basic parameters of propagation medium
09:45-10:15	Pelinovsky, E. Soliton gas and turbulence in the longwave hydrodynamic systems described by the Korteweg-de Vries-type equations
10:15-10:45	Talipova, T. and Pelinovsky, E. Breather-like wave dynamics in a stratified fluid

10:45-11:15 Coffee break

Plenary session. Chairman: Prof. Vasily Belashov (Russia)

11:15-11:45	Kopnin, S. and Popel, S. Dusty plasma energy conversion processes in Earth's atmosphere and lunar exosphere
11:45-12:15	Kharshiladze, O., Chagelishvili, R. and Chagelishvili, G. Linear generation of planetary scale fast magnetic waves in ionospheric zonal shear flows
12:15-12:45	Kharshiladze, O., Chargazia, K. Zimbardo, G. and Rogava, J. Data analysis and simulation of plasma flow vortices in the magnetotail
12:45-13:00	General Discussion

13:00-14:00 Launch

Oral session. Chairman: Prof. Oleg Kharshiladze (Georgia)

14:00-14:15	Ryabova, M., Belgibaev, R. and Ovchinnikov, V. The influence of M7.3 class solar X-ray burst on the disturbance of the lower ionosphere as well as HF propagation characteristics
14:15-14:30	Khutorova, O., Khutorov, V. and Teptin, G. Ionospheric disturbances during solar proton events from ground GLONASS-GPS measurements in Kazan
14:30-14:45	Zykov, E. and Frolov, V. The study of the ionosphere disturbed volume over the SURF facility using vertically sounding ionosonde
14:45-15:00	Ovchinnikov, M., Kushtanova, G. and Gavrilov, A. Hydrodynamic waves and disturbances in nonlinear porous media. Filtration parameters estimation
15:00-15:10	Kogogin, D., Nasyrov, I., Shindin, A. and Grach, S. Identify regions of generation of artificial airglow in the HF-pumped ionosphere by using of TEC measurements and intensity of artificial airglow along the trajectory of GPS
15:10-15:20	Nikiforov, D. The construction of three-dimensional model of the field of artificial glow of the ionosphere stimulated by powerful radio emission of the SURF facility
15:20-15:30	Kulikov, D. and Gumerov, R. Multi-channel photometer for the optical measurements in the near space

15:30-16:00 Coffee break

Oral session. Chairman: Dr. Khatuna Chargazia (Georgia)

16:00-16:15	Belashov, V. and Belashova, E. Nonlinear dynamics of the 3D solitary Alfvén waves in the ionospheric and magnetospheric plasma
16:15-16:30	Belashov, V. Multidimensional nonlinear ion-acoustic waves in a weakly relativistic plasma
16:30-16:45	Nasyrov, I. and Kostromin, A. Application of multiple phase-screen calculation for radio sounding of artificial ionospheric inhomogeneities
16:45-17:00	Kolchev, A., Mohammed, K. and Egoshin, I. Forecasting of maximum usable frequencies of HF radio channel on the basis of oblique chirp sounding
17:00-17:10	Sherboev, M., Nasyrov, I. and Kogogin, D. Ionospheric wave disturbances generated by the Solar Terminator using GPS
17:10-17:20	Prokhorov, T. Calculation of ionospheric penetration points for GPS navigation satellites
17:20-17:30	Sherstyukov, R., Akchurin, A. and Sherstyukov, O. TIDs investigation by two-dimensional mapping and ionosonde
17:30-18:00	General photography

April 15, 2017. Saturday

09:00-10:00	General Discussion
10:00-10:30	Awards and Closing Ceremony
10:30-15:00	Excursions around Kazan city

Departure of participants