

## Parallel Session Program (Plasma and Astrophysics)

Monday, 5 <sup>th</sup> March 2012						
1430-1515	1515 – 1545	1545 – 1600	1600 –1630	1630-1700	1700-1730	
W. B. Graham (Video Talk)	Jovo Vranjes	Ali Ahmed	Tea break	Shahid Ali	Nek Muhammad	
Tuesday, 6 <sup>th</sup> March 2012						
1430-1515	1515 – 1545	1545 – 1600	1600 –1630	1630-1700	1700-1715	1715-1730
I. Kourakis	Qamar ul Haq	Muhammad Ikram	Tea break	T. Kaladze	Nazia Batool	Muddasir Ali Shah
Wednesday, 7 <sup>th</sup> March 2012						
1430 - 1515	1515 – 1545	1545 – 1600	1600 –1630	1630-1700	1700-1715	1715-1730
M. Kono	Aman -ur-Rehman	Mujahid (Video Talk)	Tea break	Shahzad Mahmood	Hamadullah Khan	Gohar Abbas
Thursday, 8 <sup>th</sup> March 2012						
1430 -1515	1515 – 1545	1545 – 1600	1545 – 1600	1630-1700	1700-1715	1715-1730
Arshad Majeed Mirza	Waqas Masood	Laila Zafar	Tea break	Shahid Rafique	Abdul Rasheed	Muhammad Jamil

Monday Parallel Session: **Chairman** –Hamid Saleem (1430 to 1600), **Chairman** –Qamar ul Haq (1630 to 1730)  
 Tuesday Parallel Session: **Chairman** –Shahid Ali (1430 to 1600), **Chairman** –Shabbir Ahmad (1630 to 1730)  
 Wednesday Parallel Session: **Chairman** –Shahzad Mahmood (1430 to 1600), **Chairman** –Aman -ur-Rehman (1630 to 1730)  
 Thursday Parallel Session: **Chairman** –I. Kourakis (1430 to 1600), **Chairman** –Arshad Majeed Mirza (1630 to 1730)

## Speakers

W. B. Graham  
Jovo Vranjes  
Ali Ahmed  
Shahid Ali  
Nek Muhammad  
I. Kourakis  
Qamar ul Haq  
Muhammad Ikram

T. Kaladze  
Nazia Batool  
Mudassir Ali Shah  
M. Kono  
Aman-ur-Rehman  
Mujahid  
Shahzad Mahmood  
Hamadullah Khan  
Gohar Abbas  
Arshad Majeed Mirza  
Waqas Masood  
Laila Zafar  
Shahid Rafique  
Abdul Rasheed  
Muhammad Jamil

## Titles

Plasmas in liquids and their applications  
Heating, acceleration and transport of particles in the solar wind.  
Short scale electrostatic vortices driven by the electrons sheared flow parallel to external magnetic field in heavier ion plasmas  
Wakefield formation in multi-component dusty plasma  
The Effect of CO<sub>2</sub> Laser Wavelength on Dynamics of Laser-Produced Tin Plasma  
Electrostatic modes in non-Maxwellian plasmas  
Dipolar vortices and collisional instability in rotating electron-positron-ion plasmas  
RF Heating of Electron Plasmas in a Penning-Malmberg trap and Thomson Backscattering Diagnostics of Electron Bunches Interacting with the Plasma  
Excitation of zonal flow and magnetic field by Rossby-Khantadze electromagnetic planetary waves in the ionospheric E - layer  
Pair ion plasma and nonlinear drift waves  
Bernstein Mode in relativistic degenerate electron plasma  
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Modeling and Simulation of Plasma Sources  
Influence of capacitive bias on electron dynamics in an inductively coupled plasma  
Modulational instability and envelope solitons of ion acoustic wave with finite ion temperature in electron-positron-ion plasmas  
Order of magnitude enhancement in axial run-down velocity of current sheath and focus duration of a PF device with preionization  
[Anomalous skin effects in relativistic parallel propagating weakly magnetized electron plasma waves](#)  
Linear and nonlinear properties of Shukla-Varma mode in dusty plasma  
Effects of trapping on Alfvén waves in Space plasmas  
Electromagnetic inertio-gravity waves in the earth's ionosphere  
Radiation emission from a plasma focus device  
Ion-acoustic solitary waves in ultra-relativistic degenerate pair-ion plasma  
[Drift wave instability in a nonuniform quantum dusty magnetoplasma](#)

**Venue: Auditorium 8A, Ground Floor, NINVASt.**