

## Program

**Tuesday December 1<sup>st</sup> 2009**

8.30-9.00

*Registration*

9.00-9.15

*Welcome*

9.15-10.00

D.D. Ryutov

*“Constraints on the photon mass from the galactic magnetic field structure”*

10.00-10.45

B. Coppi

*“Plasma regimes in the surroundings of black holes, composite plasma disk structures and relevant accretion and radiation processes”*

10.45-11.15

*Coffee break*

11.15-12.00

S. Cowley

*“Magnetic field growth and turbulence in astrophysical plasmas”*

12.00-12.20

V.I. Ilgisonis

*“What physics does affect the MRI threshold”*

12.20-14.30

*Lunch*

14.30-15.15

P. Coppi

*“X-ray plasma diagnostics for accreting black hole systems”*

15.15-16.00

F.A. Aharonian

*“Nonthermal astrophysical plasmas in Cosmos”*

16.00-17.00

**Poster Session**

*Coffee break*

17.00-17.45

G. Ghisellini

*“The jet/disk connection in blazars”*

17.45-18.30

V. Carbone

*“Turbulence in solar wind and laboratory plasmas”*

18.30

*Welcome cocktail*

## **Wednesday December 2<sup>nd</sup> 2009**

9.00-9.45

G. Morfill

*“Study of critical phenomena with complex plasmas”*

9.45-10.30

A. Melzer

*“3D dust clouds (Yukawa balls) in strongly coupled dusty plasmas”*

10.30-11.00

*Coffee break*

11.00-11.45

F. Pegoraro

*“Running against the clock in vortex-induced magnetic reconnection”*

11.45-12.05

M.Y. Pustynnik

*“Effect of the levitating microparticle cloud on radiofrequency argon plasma”*

12.05-12.25

Y. Li

*“Dust removal in radio-frequency plasmas by a traveling potential modulation”*

12.25-14.30

*Lunch*

14.30-15.15

J.P. Goedbloed

*“New approach to MHD spectral theory of stationary plasma flows”*

15.15-16.00

L. Ciotti

*“Dynamical friction in multimass stellar systems”*

16.00-16.30

*Coffee break*

16.30-17.15

C. Clarke

*“Observational constraints on the nature of spiral structure in galaxies”*

17.15-17.35

G. Bertin

*“Density waves in the outer disk of spiral galaxies”*

17.35-17.55

A.L. Varri

*“Self-consistent models of quasi-relaxed rotating stellar systems”*

20.00

*Social dinner*

## **Thursday December 3<sup>rd</sup> 2009**

9.00-9.45

P.M. Bellan

*“Laboratory simulations of astrophysical jets and solar coronal loops: new results”*

9.45-10.30

E.A. Kuznetsov

*“Nonlinear mirror structures in a plasma with thermal pressure anisotropy”*

10.30-11.00

*Coffee break*

11.00-11.20

M. Romé

*“Transport induced by symmetry breaking in a nonneutral plasma”*

11.20-11.40

G. Maero

*“Non-resonant dynamic stabilization of the  $m=1$  diocotron mode”*

11.40-12.00

V.I. Maslov

*“2.5D numerical simulation of excitation of coherent chain of electron wake-field bubbles by optimal non-resonant chain of dense relativistic electron bunches”*

12.00-12.20

A. Petrosyan

*“Weakly compressible turbulence in local interstellar medium. Three-dimensional modeling using Large Eddy Simulations method”*

12.20-14.30

*Lunch*

14.30-15.15

D. Price

*“Turbulence, magnetic fields and radiative feedback in the star formation process”*

15.15-16.00

P. Padoan

*“The star formation rate of supersonic MHD turbulence”*

16.00-16.30

*Coffee break*

16.30-17.15

D. Galli

*“Magnetic braking and field dissipation in the protostellar accretion phase”*

17.15-8.00

G. Lodato

*“Characterising gravitational instabilities in protostellar discs and the formation of planetesimals”*

## **Friday December 4<sup>th</sup> 2009**

9.00-9.45

R.V.E. Lovelace

*“Conical winds and axial jets from the disk-magnetosphere boundary: Axisymmetric and 3D simulations”*

9.45-10.30

S.V. Lebedev

*“Magnetically driven supersonic plasma jets in high energy density experiments”*

10.30-11.00

*Coffee break*

11.00-11.45

J. Ferreira

*“Large scale magnetic fields in discs: advection and jet launching”*

12.00

*End of the Symposium*