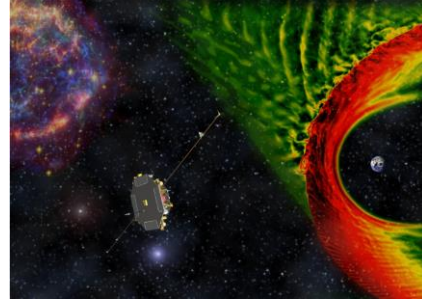
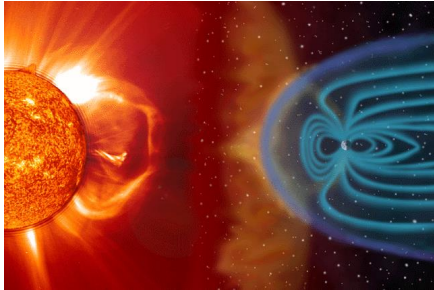


VLASOVIA 2016

Fifth International Workshop on the Theory and Applications of the Vlasov Equation

Copanello, Italy, May 30 – June 2, 2016



First announcement

The workshop aims at providing an up-to-date summary for scientists working in the field of Vlasov theory. The Vlasov equation is used for the modelling of a wide range of phenomena occurring in natural and laboratory plasmas, as well as in other many-particle systems displaying a collective behaviour. The present edition will focus on space and astrophysical plasmas. A special session will be devoted to the THOR mission (<http://thor.irfu.se/>) of the European Space Agency, which addresses the fundamental question of turbulent energy dissipation and particle energization.

Topics

Space and astrophysical plasmas
Magnetic confinement plasmas
Computational and theoretical approaches

Gravitational systems
Basic collisionless plasma physics

Website: <http://www.fis.unical.it/astroplasmi/vlasovia2016/>

Contact e-mail: vlasovia2016@gmail.com

Scientific organizers

Francesco Valentini (Università della Calabria, Italy)
Francesco Califano (Università di Pisa, Italy)
Giovanni Manfredi (CNRS Strasbourg, France)

Registration and abstract submissions

Research contributions are welcome for oral or poster presentations. Details on the registration and abstract submission will be posted on the website. Several grants will be available for PhD students.

Venue

The workshop will take place on May 30 - June 2, 2016, in the seaside resort "Villaggio Guglielmo" (<http://www.villaggioguglielmo.it/>), located in the Calabria region in the south of Italy.

Conference proceedings

Original papers based on the oral/poster presentations will be considered for publication as refereed articles in a special issue of *Journal of Plasma Physics* (Cambridge University Press).

Invited speakers

Enrico Camporeale (Amsterdam)
Troy Carter (UCLA)
Stéphane Colombi (Paris)
Steve Cowley (Culham)
Bill Dorland (Maryland)
Bengt Eliasson (Strathclyde)
Matteo Faganello (Marseilles)
Lazar Friedland (Jerusalem)
Xavie Garbet (Cadarache), to be confirmed
Alain Ghizzo (Nancy)
Gregory Hammett (Princeton), to be confirmed
Gregory Howes (Iowa)
Giovanni Lapenta (Leuven)
Nuno Loureiro (Lisbon)
Minna Palmroth (Helsinki), to be confirmed
Thierry Passot (Nice)
Francesco Pegoraro (Pisa)
Jérôme Pétri (Strasbourg)
Henri Pierre (Orléans)
Alessandro Retinò (Paris)
François Rinçon (Toulouse)
Alexander Schekochihin (Oxford)
Sergio Servidio (Università della Calabria)
Eric Sonnendrucker (Garching)
Andris Vaivads (Uppsala)
Pierluigi Veltri (Università della Calabria)