

# ASTRONUM - 2009: 4th International Conference on Numerical Modeling of Space Plasma Flows

Contributed by Administrator  
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June 29th - July 3rd 2009, Chamonix, FRANCE

The Center for Space Plasma and Aeronomic Research (CSPAR) at the University of Alabama in Huntsville and the Laboratory of Research into the Fundamental Laws of the Universe of the French Commissariat of Atomic Energy (CEA/IRFU), will organize ASTRONUM-2009 -- the 4th International Conference on Numerical Modeling of Space Plasma Flows at the Palais des congres of Chamonix, France.

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The topics of the conference will cover the following subjects:

- Advanced numerical methods for space, astrophysical and geophysical flows
- Large-scale fluid-based simulations
- Kinetic and hybrid simulations
- Magnetohydrodynamics
- Turbulence and cosmic ray transport
- Data handling and visualization

with the application to

- Cosmology and galaxy formation
- Dynamo theory
- Physics of sun-heliosphere-magnetosphere
- Laboratory astrophysics and inertial
- Confinement fusion
- Interstellar medium and star formation
- Stellar physics and supernovae

The purpose of the conference is to bring together leading experts in applied mathematics, space physics, astrophysics, and geophysics in order to discuss the application of novel numerical algorithms to computationally challenging problems.

The conference will be structured around invited, 40-minute overview and 25-minute regular talks, and a limited number of contributed talks, with no parallel sessions.

E-mail inquiries about the meeting should be directed to np0002 ( AT ) uah.edu