

Numerical modeling of space plasma flows - ASTRONUM-2006, proceedings of the 1st IGPP- CalSpace International Conference held at Palm Springs, California, USA, 26-30 March 2006

Astronomical Society of the Pacific Conference Series ASPCS - Astrophysics authors/titles

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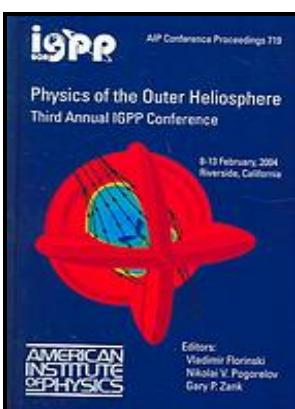
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Notes: Includes bibliographical references.

This edition was published in 2006

Tags: #Advances #in #numerical
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**Advances in numerical modeling of
astrophysical and space plasmas**



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The oscillation problem is shown to be self-similar. In the light of the current understanding of the multiscale dynamics of the quiet photosphere, we finally suggest a tentative picture of supergranulation as a dynamical feature of turbulent magnetohydrodynamic convection in an extended spatial domain, with the aim of stimulating future research and discussions. This technique is used in three different algorithms: the local correlation tracking LCT , the coherent structure tracking CST , and the ball-tracking BT.

Numerical modeling of space plasma flows : ASTRONUM

An extensive discussion on the energetics of the complex is presented: a first approach is based on the minimum energy estimation, while a second one employs a self-similar model of the interaction between the jets and the surrounding medium. The problem of understanding the linkages and couplings in multi-scale processes is a frontier problem of modern science involving fields as diverse as plasma phenomena in the laboratory to galactic dynamics.

Numerical modeling of space plasma flows : ASTRONUM

There is no obvious evidence for a strong stellar wind in the X-ray orbital light curve that would be expected from a massive He star; thus, the mass of the He star should be ~ 25% of the Eddington limit, there is no instability or overstability, and there are no bursts. It is defined as 1 provides an example of such a power spectrum. We show the first results of this exciting new program.

Advances in numerical modeling of astrophysical and space plasmas

We present two consistent timing solutions from a phase-coherent timing analysis over 2 yr and a partially phase-coherent timing analysis of 6 yr of widely spaced data obtained with the Rossi X-ray Timing Explorer. Such flows can cross a significant fraction of the convective zone because of the nearly isentropic state of the fluid Rieutord and Zahn,. This forces non-equilibrium beta processes to occur, which release energy that is invested partly in neutrino emission and partly in heating the stellar interior.

The Sun's Supergranulation

Besides, as one goes deeper into the stratified SCZ, the injection scale increases smoothly and monotonically with depth, so the supergranulation scale does not show up as a special scale in deep layers either in this simple scenario.

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