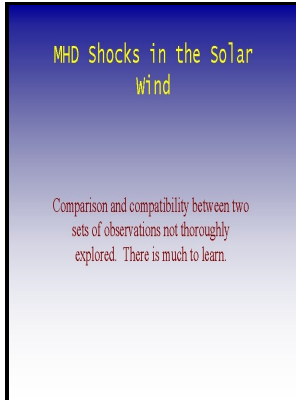


# MHD structures, waves and turbulence in the solar wind - observations and theories

Kluwer Academic Publishers - Waves Côte d'Azur/meetings/Nonlinear waves and turbulence in space plasmas/Nonlinear waves and turbulence in space plasmas contributions



Description: -

-

Garlic

Cookery (Garlic)

Cooking / Wine

Specific Ingredients - Herbs, Spices, Condiments

Heliosphere

Solar wind MHD structures, waves and turbulence in the solar wind - observations and theories

-MHD structures, waves and turbulence in the solar wind - observations and theories

Notes: Includes bibliographical references (p. 201-210).

This edition was published in 1995



Filesize: 16.26 MB

Tags: #Effect #of #current #sheets #on #the #power #spectrum #of #the #solar #wind #magnetic #field #using #a #cell #model

## Full compressible 3D MHD simulation of solar wind

Tags: Coherent magnetic structures such as magnetic vortex chains have been observed in the solar wind close to the Earth by the Cluster space mission Perrone et al. But for a given boundary, different mechanisms can coexist and compete one with each others. The incompressibility limit is further studied using a more compact form that include only increments of the turbulent fields and compared to previous derivations.

## MHD structures, waves and turbulence in the solar wind: Observations and theories

Subsequently, Cluster and MMS observations in the plasmashet and magnetosheath have confirmed that such structures, with scales of order several electron gyroradii, exist and have the predicted spatial pattern in the electron distribution function. Events constituting the tails of the PDFs are shown to form structures of strong transfers, either positive or negative, which can be observed over the whole available range of scales.

## Full compressible 3D MHD simulation of solar wind

Using a set of novel diagnostic measures we show that both the large-amplitude structures and the lower-amplitude background fluctuations preserve linear features of kinetic Alfvén waves to order unity.

## MHD Structures, Waves and Turbulence in the Solar Wind (豆瓣)

Tags: A lot of astrophysical environments, such as accretion flows around black holes, the intracluster medium, and the solar wind, are weakly collisional or collisionless and well magnetized.

Waves Côte d'Azur/meetings/Nonlinear waves and turbulence in space plasmas/Nonlinear waves and turbulence in space plasmas contributions

Moreover, we discuss the implications of Debye science for the turbulence-research communities in the fields of space, astrophysics, and laboratory plasma physics. Tags: The dynamics and dissipation of turbulence in weakly collisional space plasmas throughout the heliosphere remains a controversial topic at the forefront of space physics research.

### **MHD Structures, Waves and Turbulence in the Solar Wind (豆瓣)**

There is growing evidence that impulsive events, such as magnetic reconnection instabilities, bring to a spatially localized enhancement of energy dissipation, thus speeding up the energy transfer at small scales.

## Related Books

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