

数学与系统科学研究院
计算数学所网络学术报告

报告人: **Dr. Yitzhak Fouxon**

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报告题目:

Sonic scale and growth of magnetic field fluctuations in compressible turbulence

邀请人: 于海军 研究员

报告时间: 2021 年 12 月 10 日 (周五)

晚上 20:00-21:00

报告工具: Zoom 会议

<https://us02web.zoom.us/j/88996187793>

Abstract:

We will consider the problem of the growth of small seed fluctuations of the magnetic field in the turbulent flow of a conducting fluid. We will demonstrate that the so-called sonic scale plays a crucial role and provide some theoretical results obtained in the frame of the Kraichnan model. The case where the seed fluctuations are concentrated at the smallest scales of turbulence (below the viscous scale) allows consideration that does not use any model and applies to the Navier-Stokes turbulence.

欢迎大家参加！