

Unsolved problems of the solar wind turbulence

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The solar wind is characterized by fluctuations extending from MHD to kinetic scales and therefore is a unique laboratory of plasma turbulence. Despite a number of spacecraft missions for solar wind observation and numerical simulations, the solar wind turbulence involves several unsolved problems. These problems are related to problems in solar physics, including coronal heating and solar wind acceleration. In this talk, I will review unsolved problems of the solar wind turbulence and the latest understandings on them. Predictions for (and results of) Parker Solar Probe would also be discussed.

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