DPP14-2014-000447

Abstract for an Invited Paper
for the DPP14 Meeting of
the American Physical Society

Turbulence in the Solar Wind from MHD to Kinetic Scales

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The solar wind provides one of the best opportunities to investigate plasma turbulence with a range of detailed in situ measurements. In this talk, I will describe some recent progress that has been made in understanding this turbulence, both at MHD scales and at small kinetic scales, where recent high resolution measurements have led to a rapid increase in our understanding. In particular, I will discuss measurements of the energy spectrum, anisotropy, intermittency and the interplay between linear and non-linear dynamics in the cascade. I will also compare these results to modern theories of plasma turbulence and discuss the implications for our understanding of how turbulent plasmas are heated.