

Abstract Submitted
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Weak compressible MHD turbulence in the solar corona¹ BENJAMIN CHANDRAN, University of New Hampshire — This presentation describes a weak-turbulence calculation for fast waves and Alfvén waves in low-beta plasmas. Numerical and analytic results are presented for the anisotropic power spectra and nonlinear time scales for energy transfer to small scales and high frequencies. It is argued that high-frequency waves produced by MHD turbulence in the solar corona are a promising mechanism for explaining the observed anisotropic heating of minor ions in the corona.

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