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Abstract for an Invited Paper for the DPP10 Meeting of the American Physical Society

## Magnetohydrodynamic Turbulence STANISLAV BOLDYREV, University of Wisconsin-Madison

The purpose of this talk is to discuss what is currently known about the properties of incompressible magnetohydrodynamic (MHD) turbulence. The talk will start with a general introduction, and then will review recent analytic developments, numerical simulations, and where possible, observations and experiments. The discussion will include the role of the guide field and the ideal conservation laws, the inherent anisotropies of the turbulent energy cascade, the physics of the "imbalance" or the Alfvenization phenomenon, and the processes of self-organization.