Numerical simulations of Alfvénic turbulence in extended reduced MHD JEAN C. PEREZ, STANISLAV BOLDYREV, University of Wisconsin-Madison — We present the results of numerical investigation of anisotropic Shear-Alfven turbulence in the framework of extended reduced MHD model. The turbulence is randomly stirred at large scales until it reaches a steady state. By properly choosing the forcing parameters we investigate both weak and strong turbulence, and address the question of its transition to the Kinetic-Alfven regime at the ion-sound-radius scale. We observe that the energy spectrum in the weak turbulence regime is flatter than k^{-2} predicted by weak turbulence models.

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