

[PHT-01] Alfvénic Turbulence in Pulsar/Black Hole Magnetospheres

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If the magnetic field is extremely strong, as in pulsar/black hole magnetospheres, the Alfvén speed approaches to the speed of light and we need relativity to describe interactions of Alfvénic waves. In this poster, we discuss physics of Alfvénic turbulence in this limit. We first discuss interaction of Alfvénic wave packets and scaling relations of resulting turbulence. Then we show results of numerical simulations. Finally we compare relativistic Alfvénic turbulence and its Newtonian counterpart.