



The evolution of intermittency in the magnetosheath turbulence downstream of a quasi-parallel bow shock

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We study the turbulence downstream of a quasi-parallel bow shock using Cluster multi-spacecraft measurements. We show that turbulence is intermittent and well described by the extended intermittency model, which takes into account the spatial inhomogeneity of the cascade rate. For the first time we use multi-spacecraft observations to characterize the evolution of turbulence, particularly its intermittency, as a function of the distance from the bow shock. The intermittency significantly changes over the distance of the order of 10 ion inertial lengths. We speculate on the role reconnection plays in the development of the magnetosheath turbulence.