Parallel diffusion of charged particles by MHD turbulence

Fumiko Otsuka[1], Rika Takano[1], Tohru Hada[1]

[1] ESST, Kyushu Univ

We discuss parallel diffusion of charged particles by performing one-dimensional test particle simulations, using a onedimensional, time stationary, slab model for the MHD turbulence. The diffusion coefficient measured from the simulations show an explicit time dependence for certain parameter regimes. We will discuss implications of our results to observations of energetic particles in the solar wind.