Turbulence spreading in reversed shear plasmas

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Turbulence spreading in reversed shear plasmas is investigated using a simple, multi-fluid model of ITG turbulence in toroidal geometry. It is found that the turbulence spreads inward and outward at the linearly stable region near qmin followed by the temperature relaxation. Analysis of the simulation results indicates that the spatiotemporal propagation of the turbulence front is quantitatively consistent with Fisher front theory scaling of the speed.