Gyrokinetic particle simulations of parallel momentum transport in tokamak I. Holod and Z. Lin University of California, Irvine, 92697 CA, USA

The simulation of parallel angular momentum transport has been carried out using global toroidal gyrokinetic particle-in-cell code (GTC). Various driving terms in generalized transport equation for parallel momentum, such as diffusion, pinch and residual stress are distinguished and analyzed. Obtained results are compared with the analytical theory of momentum transport.