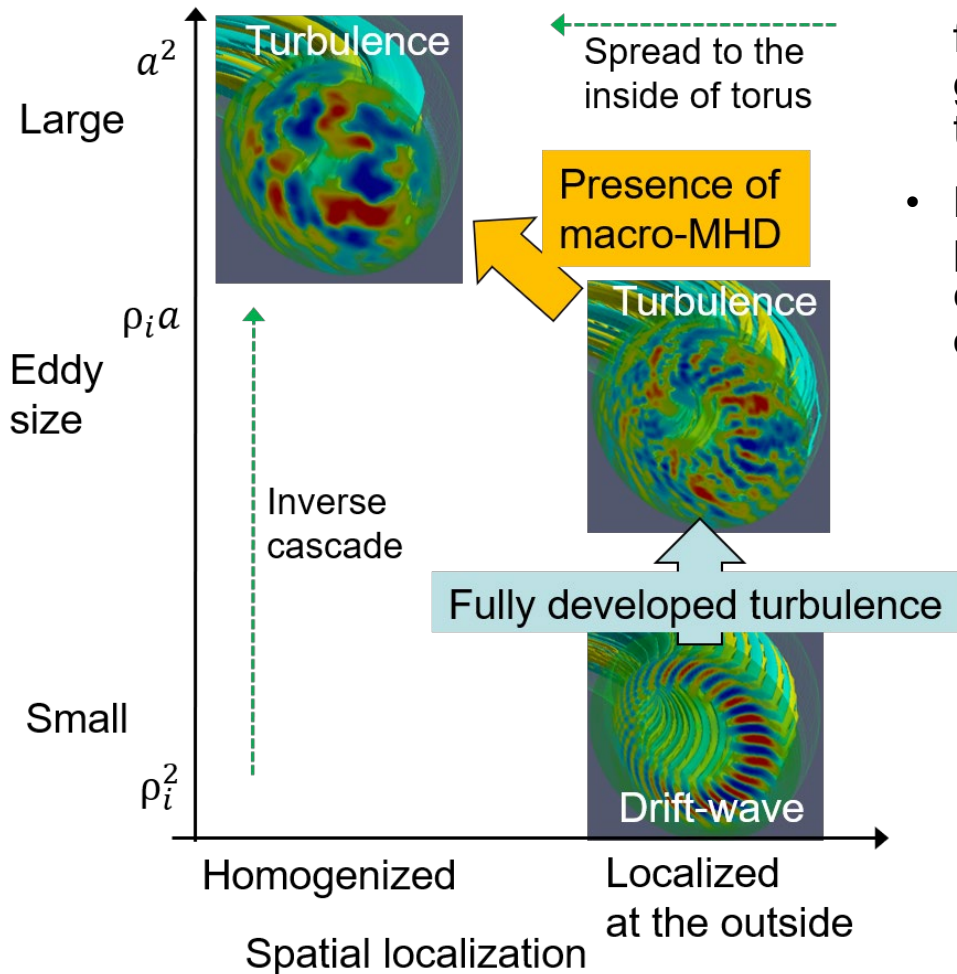


Interaction between energetic-particle-driven MHD mode and drift-wave turbulence based on global gyrokinetic simulation

A. Ishizawa, K. Imadera, Y. Nakamura, Y. Kishimoto, Graduate School of Energy Science, Kyoto University



- The macro-scale TAE transfers turbulent fluctuations from the bad curvature region to the good curvature region and from high n modes to low n modes, causing the inverse cascade.
- Both the bulk ion energy transport and fast ion particle transport are enhanced by the inverse-cascaded fluctuations caused by the interaction of the turbulence with the TAE.

