

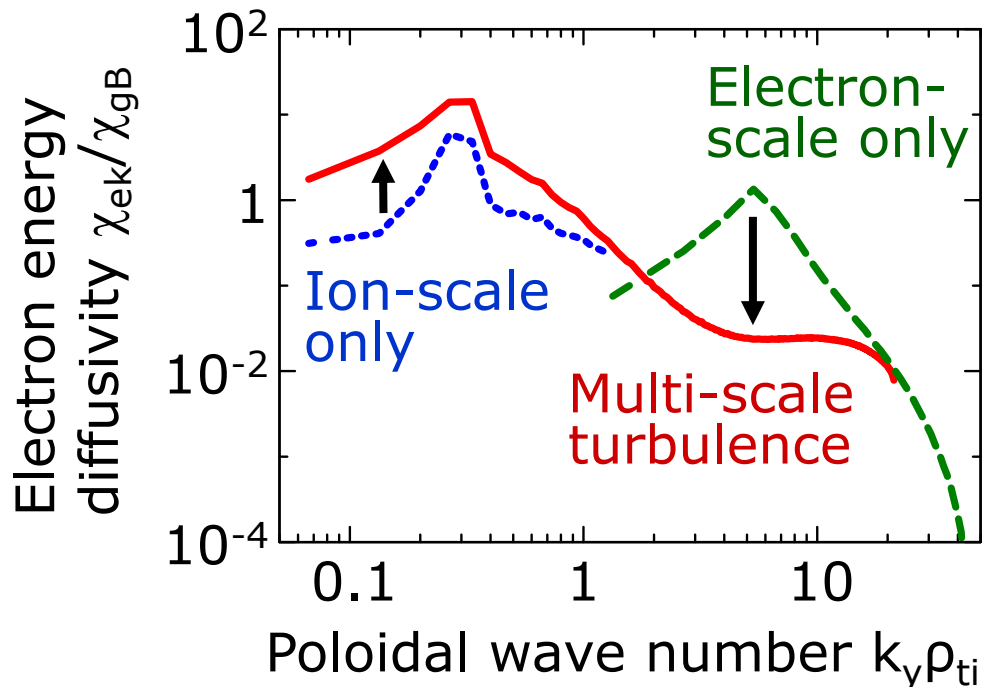
TH/1-1: Multi-scale ITG/TEM/ETG Turbulence Simulations with Real Mass Ratio and β Value

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- ETG/Streamers are suppressed by shearing of ITG/TEMs.
- ETG/Streamers can enhance ion-scale transport via ZF damping.

The results suggest that, in high- β regimes where ITGs are stabilized, contributions of electron scales are important for evaluating transport levels and modeling turbulent transport.

Multi-scale interactions change transport.



The demonstrated multi-scale turbulence paradigm

