

TH/P3-29. Tokamak Turbulence Simulations using BOUT++ in Core Region by S. S. Kim *et al.*

- **A global gyrofluid code for ITG** developed using BOUT++ framework
 - Landau damping and toroidal drift resonance operators implemented
 - Linear benchmark exercises done
 - Rosenbluth-Hinton residual zonal flows & neoclassical poloidal flows included
 - Nonlinear simulations are underway focusing on the role of ZFs

