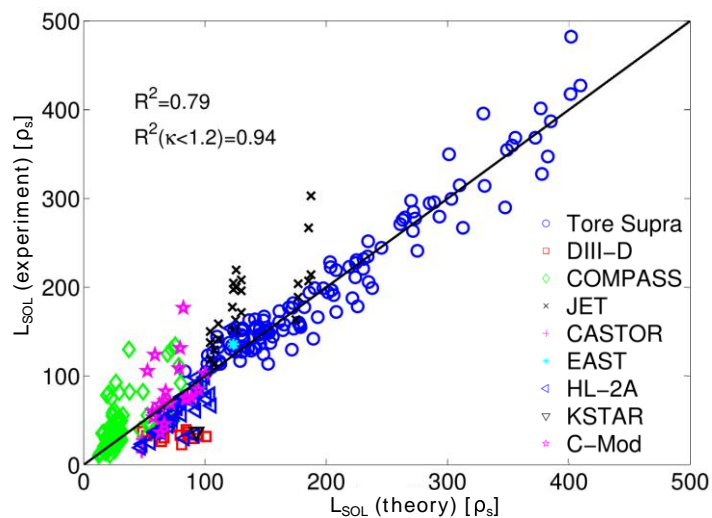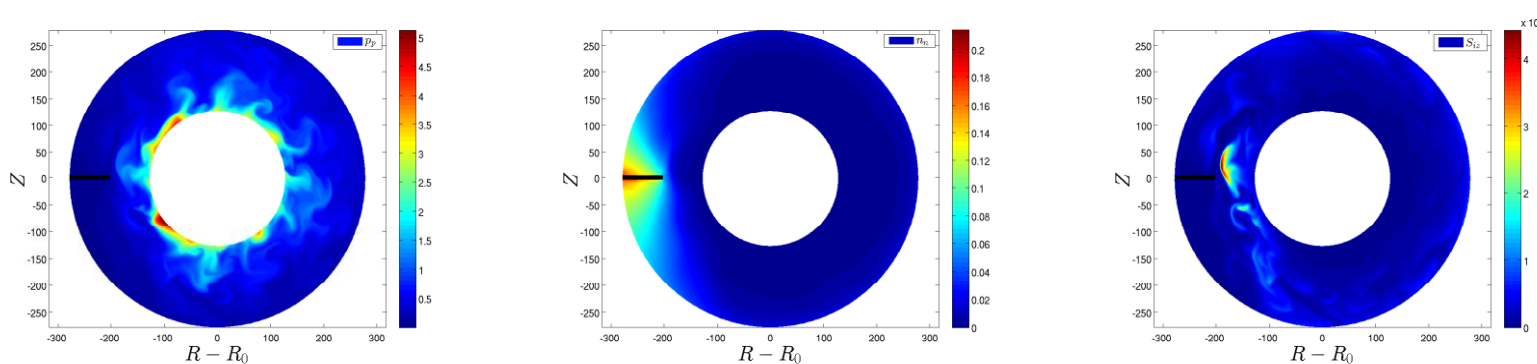# Progress in first-principles simulation of SOL plasma turbulence and neutral atom dynamics with the GBS code (P. Ricci et al.)

- Reached the capability to perform first-principles full-size simulations and analysis of turbulence in SOL, in diverted geometry, with kinetic neutrals, coupled with closed flux surface region

- Obtained first-principles scaling of SOL width in limited configurations

- In agreement with ITPA multi-machine database