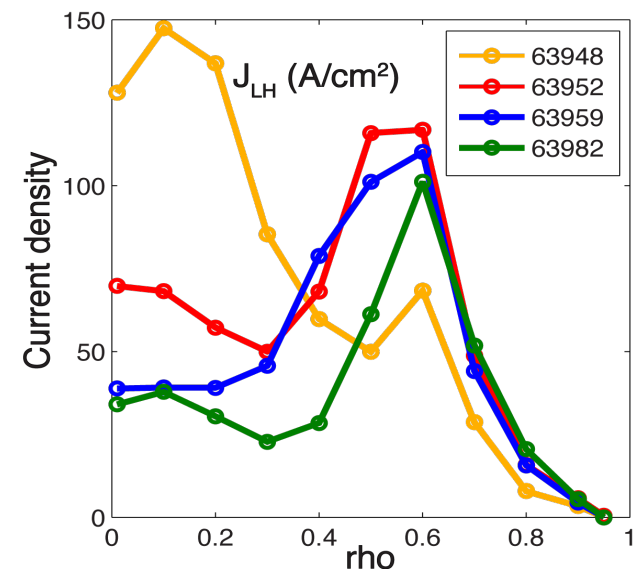
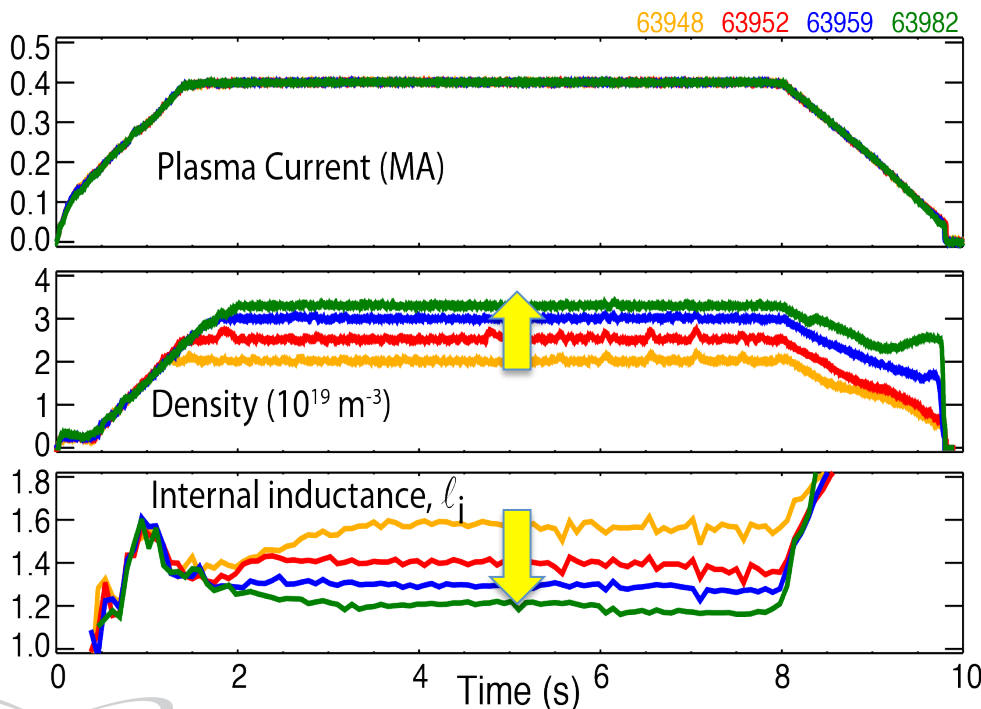


Long Pulse Operation with W Divertor and Current Profile Control in LH Current-driven Plasmas Demonstrated on EAST

- Up to 18 s H-mode operation with strike points on ITER-like W divertor
 - Up to ~50 s sustained in L-mode
- Modeling and experiments show broader current profile with higher density in fully-noninductive LH current-driven plasmas
 - Broad current profile is key to high performance in high- β_p scenario demonstrated in joint experiments on DIII-D



GENRAY-CQL3D modeling
of LHCD