

Ohmic H-Mode



- **Goal:**
 - Complete XP-506.
 - Comparison between core and edge turbulence/transport, leading up to and immediately following L-H transition. Ohmic H-modes -> good accessibility to core for reflectometers.
- **Data set from 2008 half-day missing measurements from key diagnostics:**
 - GPI, poloidal correlation reflectometer.
- **Post-processing:** FDTD2D, TRANSP, gyrokinetic codes.
- **Requested time: <0.5 days.**
 - 1) Fixed base shot at 4.5 kG, 900 kA, similar to 129700.
 - 2) Vary correlation reflectometer step pattern: Total of 12 shots.
Sweep intervals at 2.5, 5, 10 ms for radial scan: $2 \times 3 = 6$ shots
Fix frequency at 29 GHz, 31 GHz, 33 GHz for improved time resolution:
 $2 \times 3 = 6$ shots
- **Additional diagnostics:**
 - CHERS, ERD, MPTS, optical soft XRAY, ORNL reflectometer, FMCW reflectometers, BES and high-k scattering if available.
- **Relevance:**
 - ITPA TC-9 (intrinsic rotation) and TC-12 (H-mode transport and confinement at low R/a).
 - L-H transition physics.