

Wide-Pedestal QH-mode Initiated and Sustained with Zero Injected NBI torque throughout, and Sustained with Dominant Electron Heating (77% ECH power)

- Achieved zero injected NBI torque throughout
- Confinement *improves* with electron heating
- T_e internal transport barrier forms due to electron heat pinch
 - Pinch measured by Fourier analysis: increases R/L_{Te} by 2.4x
- Dominantly electron-heated Wide Pedestal QH-mode is an attractive scenario for ITER
 - Transition from QH-Mode to
 - 65% wider and 60% higher pedestal
 - H_{98y2} increases 45%
 - Pedestal regulated by turbulence
 - No ELMs or low mode number MHD
 - ITER collisionality

Ernst, Burrell, Petty, Barada, Chrystal et al, EX/2-2

