

EAST Steady-state Long Pulse H-mode with Core-edge Integration for CFETR

A Minute Time Scale SS High- β_p Discharge Was Achieved with W-Divertor

- **Dominant electron heating by EC & LH**
 - $\beta_p \sim 2.1$, $\beta_N \sim 1.7$, $H_{98,y2} \sim 1.3$, $f_{BS} \sim 50\%$
 - e-ITB ($T_e > T_i$), zero torque, low rotation
- **Confinement improvement**
 - Broader q-profile and Shafranov shift
- **Good control of particle**
 - Small ELMs, on-axis ECH
- **Radiation FB control compatible with core performance**

