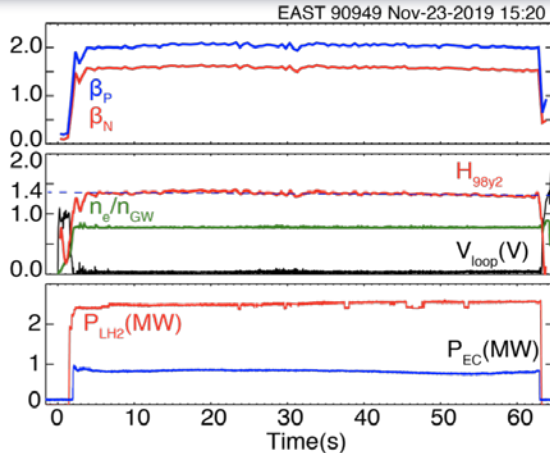


EAST demonstrated high β_p long pulse H-mode operation with high f_{bs}



- A 60s steady-state high β_p H-mode discharge achieved by optimizing core and edge compatible integration.
 - $\beta_p \sim 2.1$, $f_{bs} \sim 0.5$, $H_{98} > 1.3$, small ELMs
 - eITB ($T_e > T_i$), zero torque, low rotation

- Fully non-inductive high β_p regimes close to 1GW CFETR performance obtained by Improving confinement

- Higher β_p
- Higher density gradient
- Reduced fast ion losses

