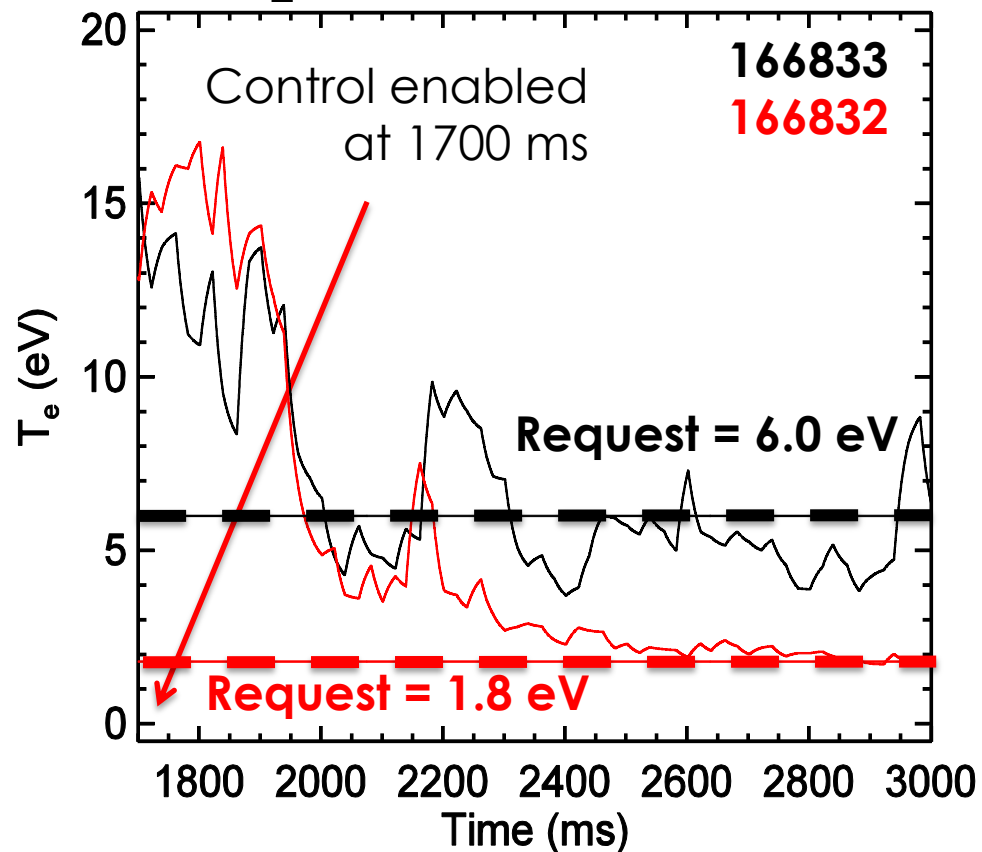# DIII-D Controls Divertor Detachment with Feedback Gas Puff in H-mode & L-mode and D & He Plasmas

- **Controls $T_e$ at divertor target**
  - H-mode: real time ELM removal → ctrl. inter-ELM $T_e$
  - Robust control of divertor detachment before and after onset

- **Between-shot redeployment to new scenarios**
  - Developed everything w/ $D_2$ puff → $D_2$ plasma
  - Changed to $N_2$ puff → He plasma

**Detachment Control $N_2$ puff → He plasma**



**Versatile and adaptable detachment control system**