

Development of Small ELM regimes in NSTX-U

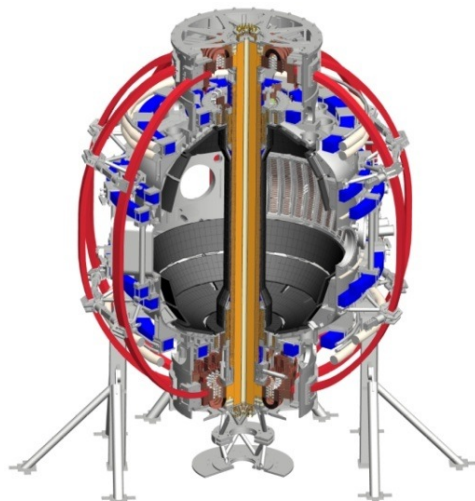
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and the NSTX Research Team

NSTX-U Research Forum
Particle Control Task Force
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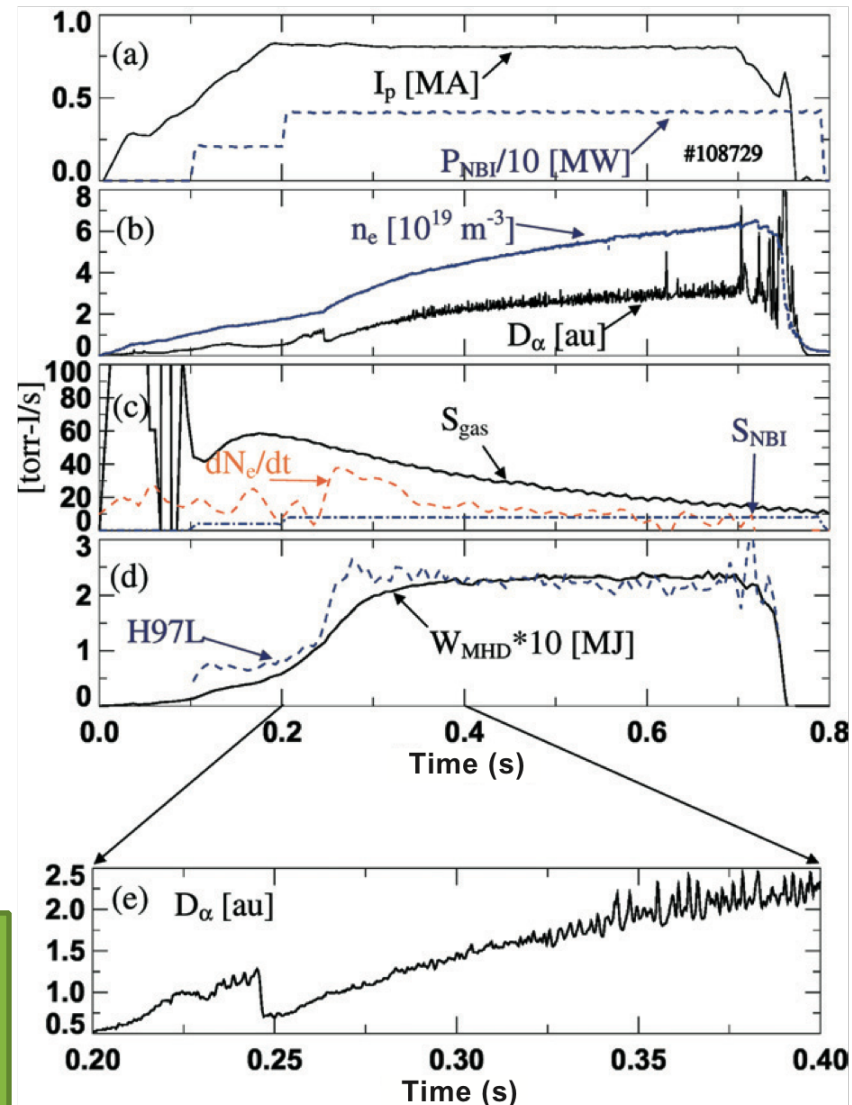


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Motivation: Re-establish discharges with small type V ELMs regime with high stored energy (1 run day)

- Previously achieved on NSTX
 - Required drsep \sim -20 mm and strong shaping
- Run Plan:
 - Re-establish discharges via drsep scan under B conditions
 - Repeat with small amounts of Li
 - If successful, repeat in Li ELM-free scenarios

Goal: Establish discharge scenarios with edge particle transport and density control utilizing small ELMs



R. Maingi, NF. 45 (2005) 264