

# **Establishing H-modes in NSTX with Highly Conditioned Walls and low Neutral Influx**

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**NSTX Research Forum 2002**

**Princeton Plasma Physics Laboratory**

**Princeton, September 11 & 12, 2002**

## Motivation and Technique

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- Good machine bakeouts are now in-hand
- More techniques coming on-line for better neutrals control
  - Including Lithium pellet as used on TFTR.
- Rapid current ramp-down was effective in obtaining H-modes in extremely well conditioned walls in TFTR (“supershot-Hmodes”).
- May help in density control (better beam access to core)

### Technique and Runtime

- Good bakeout, boronization, Glow Discharge Cleaning, long times between shots if needed. Use gas puffs sparingly.
- Use Lithium pellet when available
- Use rapid current ramp-down to trigger H-mode.
- Requesting 1 day