

High frequency ELM pacing obtained with D₂ and lithium pellets, including in ITER baseline scenario at low torque

- **D₂ pellet injection up to 90 Hz in IBS**
 - $q_{\text{peak}} \sim 1/f_{\text{ELM}}$ up to 6X the natural f_{ELM}
 - At 90 Hz, secondary fueling effects affect pedestal and favor small ELMs

- **Injection of non-fuel granules tested**
 - Lithium, Carbon, Boron Carbide (B₄C)
 - ELM mitigation with Li for high q_{95} , low n_e →
 - In IBS, ELM pacing but not mitigation

