

**Abstract Submitted for the Forty-Ninth Annual Meeting
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Category Number and Subject: 5.6.2. DIII-D Tokamak

Theory Experiment

ELM Triggering From Deuterium Pellets Injected into DIII-D,* L.R. Baylor, T.C. Jernigan, *Oak Ridge National Laboratory*; T.E. Evans, P.B. Parks, *General Atomics*; M.E. Fenstermacher, *LLNL*; R.A. Moyer, *UCSD* – Deuterium fueling pellets have been injected into DIII-D plasmas from 5 different locations and under different plasma H-mode conditions. Edge localized modes (ELMs) have been triggered from pellets injected from all locations and under all the H-mode scenarios thus far explored. Pellets injected into plasmas with ELMs suppressed by a resonant magnetic perturbation are also observed to trigger one or more ELM like events. Experimental details of the pellet triggering of ELMs on DIII-D will be reviewed. In addition a pellet dropper has been installed on DIII-D for ELM pacing studies. Initial results from the slow 1mm pellets dropped into the edge plasma will be presented.

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