Modeling impurity pellet ablation and ELM triggering in NSTX

- Tool: 3D non-linear MHD code **M3D-C[1]** (PPPL)
- Now include realistic ablation model for Li granules (P. Parks, GA)
- 2D simulations with realistic NSTX equilibriums used to benchmark the model

3D simulations on-going to study ELM-triggering mechanisms and ELM properties when injecting Li granules in NSTX-U

Density increase due to Li injection in NSTX

n_e

R

Z (in m)

LGI