

# Nonlinear simulation of ELM dynamics in the presence of RMPs & Pellet injection

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- Model calculations on 2 fluid nonlinear EM code (CUTIE)
- ELMS generated in EC heated H mode simulation of COMPASS-D
- $n=2$  RMP leads to significant reduction in ELM amplitude
- Concomitant increase in beta & energy confinement but decrease in particle confinement
- Observe redistribution of mode energy & cascading of energy to shorter scale lengths.
- Pellets have a similar mitigating influence on ELMs

