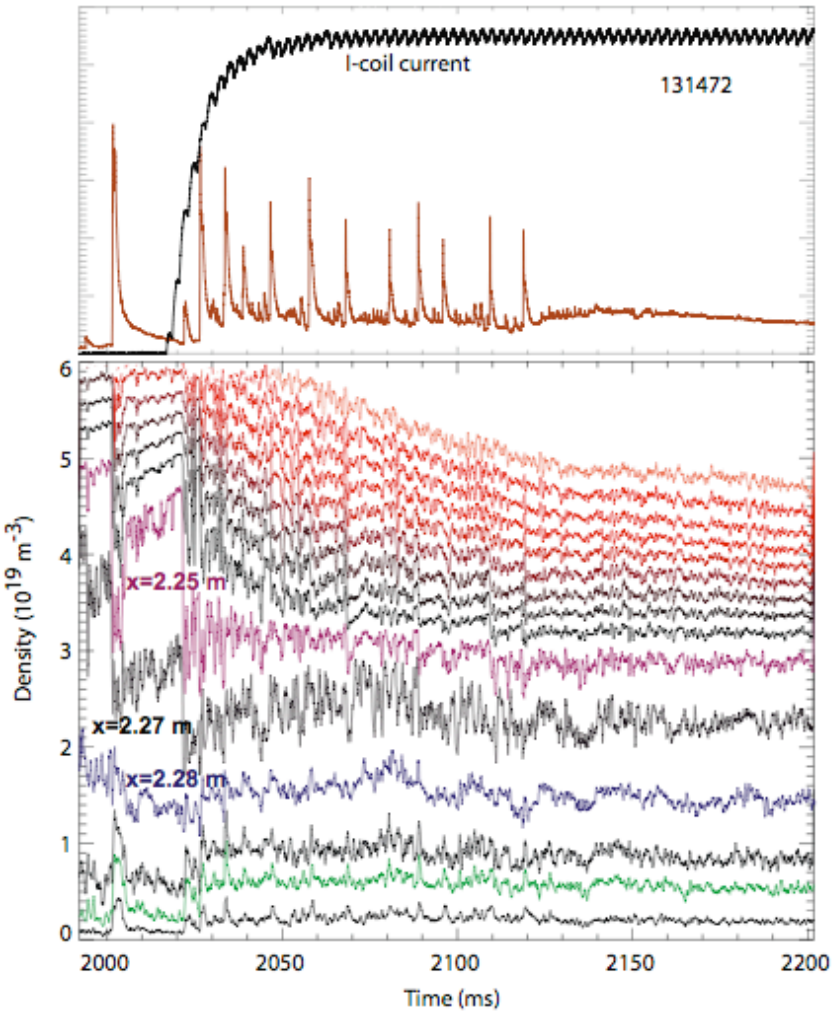
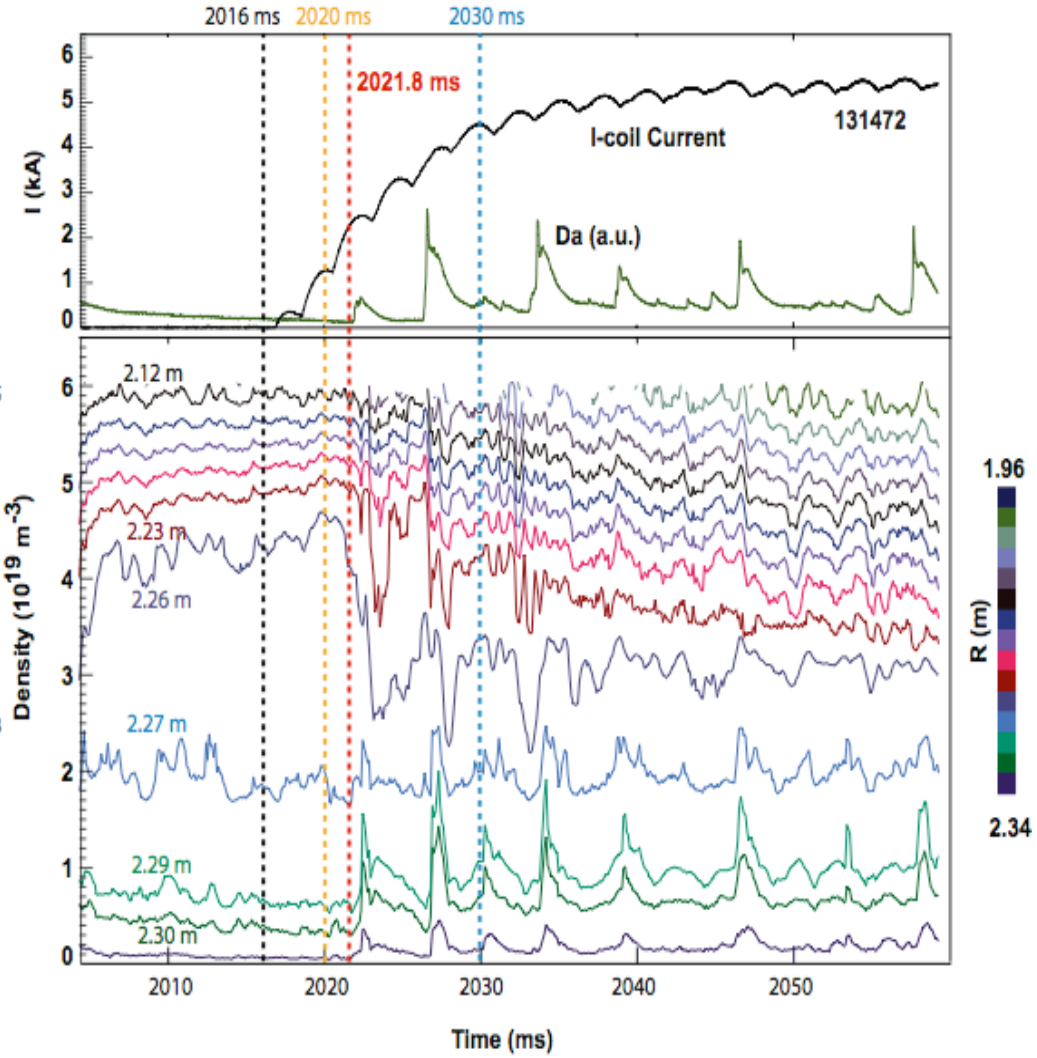
Isolating particle sources and sinks in RMP H-modes with core pellet fueling (2008-03-06: June 5, 2008)

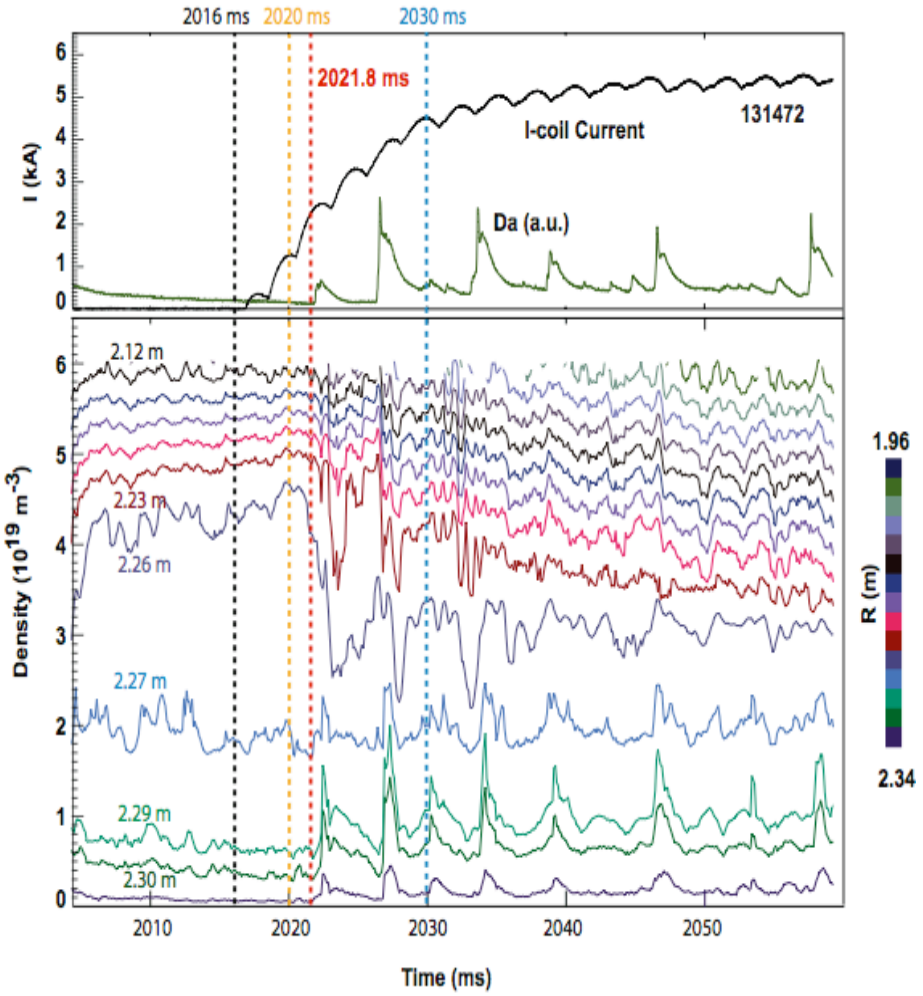
- **Goal:**
  - Establish quantitative connection between core fueling (pellets), particle confinement, wall recycling and particle exhaust (cryopumps and/or walls)
- **Draft Plan:**
  - Constant P_{inj}, pellet and I-coil parameters during ELM suppressed phase
    - Move OSP away from pump (4 discharges)
    - Vary I-coil current (4 discharges)
    - Vary I_p/B_T (constant q95), β_N scan (4 discharges)
  - Increase upper gap and triangularity to reduce coupling to upper pump and recycling surfaces (2 discharges)
  - Vary pellet velocity: deposition profile (4 discharges)
    - LFS compared to HSF injection
  - 3 point P_{inj} scan using one of the configurations from above (4 discharges)
  - Acquire high resolution CER data during I-coil turn-on (4 discharges)

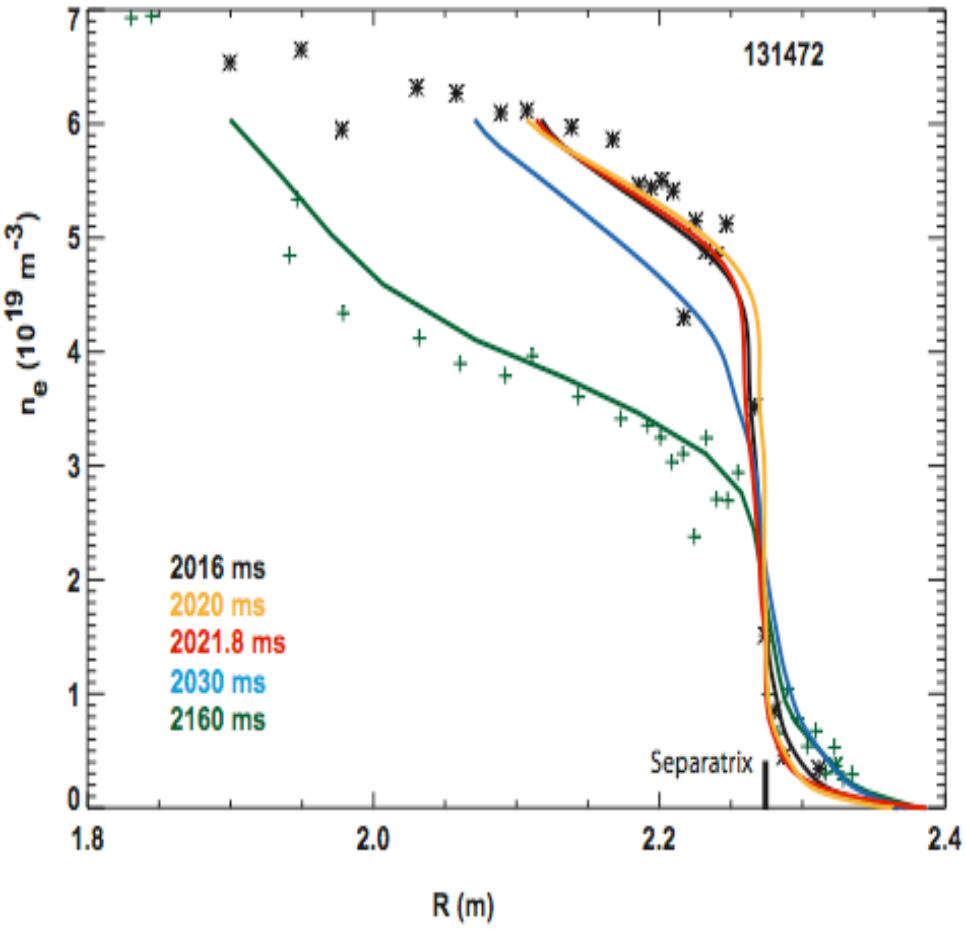
Fast I-coil pump-out (part I)





Fast I-coil pump-out (part II)





Fast pump-out modeling