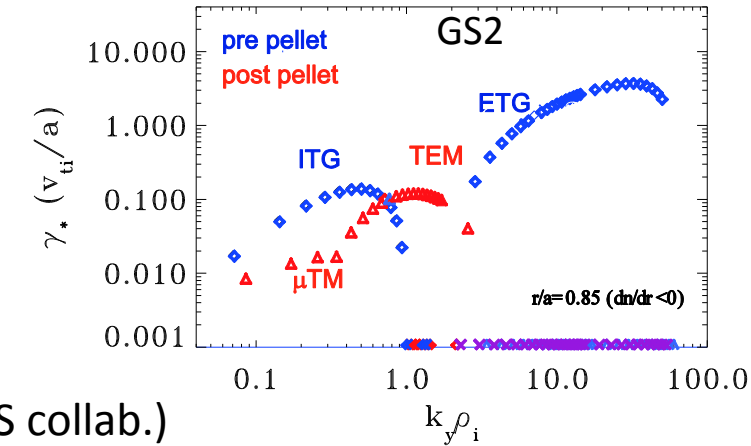
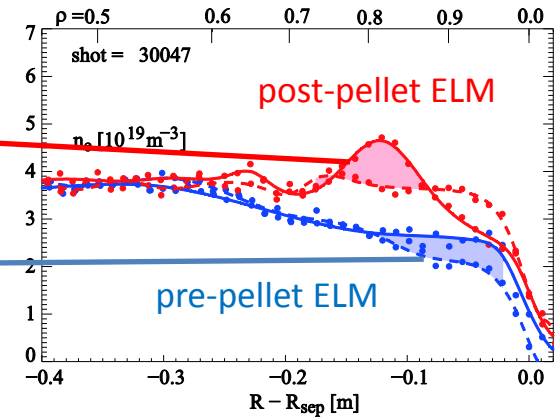
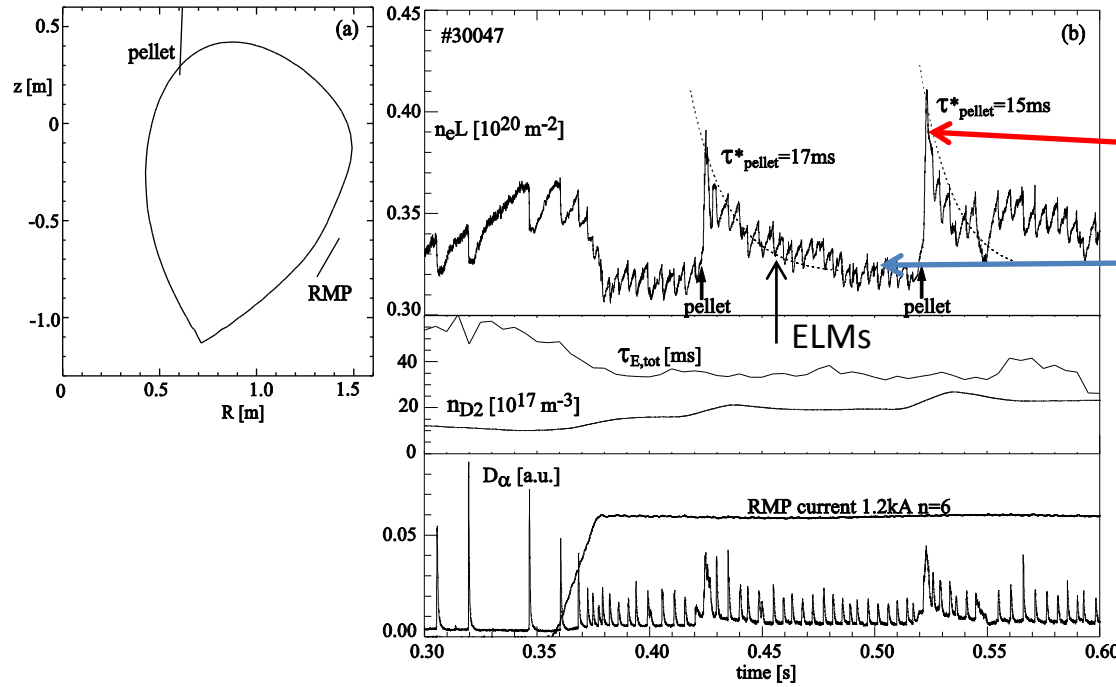


Pellet Fuelling of Plasmas Including ELM Mitigation in MAST



- Pellet cloud size $\sim 5cm$, density $\sim 1 \times 10^{23} m^{-3}$, $T_e \sim 4eV$ (NIFS collab.)
- Pellet fuelling \sim compatible with RMP ELM mitigation:
 - post-pellet ELMs only slightly larger than pre-pellet ELMs
- ELM particle loss is outwards, even in $dn/dr > 0$ region, indicates ExB convection
- Post-pellet density profiles destabilise TEMs in $dn/dr < 0$ region and stabilise TEMs in $dn/dr > 0$
 - \Rightarrow expect asymmetric inter-ELM particle transport from pellet deposition peak.