


## Pellet injection (PI) in large 3D devices

- **Density control** in ECR heated plasmas (e.g. W7-X high-density operation)
- **Scenario development** for steady-state reactor grade plasmas

## Transport Studies

- Slow **core fuelling** studied  time scale  $\tau_p$
- Neoclassical (**NC**) particle fluxes:  
 $\Gamma^{\text{NC}} \sim \Gamma^{\text{exp}}$  (except. directly after PI)
- But always:  $|E_r^{\text{NC}}| < |E_r^{\text{CXRS}}|$
- Small response on radial electric field except **directly after PI**:  $E_r \rightarrow 0$

⇒ **VALIDITY OF NC THEORY FOR TIMES W/ STRONGLY HOLLOW DENSITY PROFILES WAS NOT CONFIRMED**