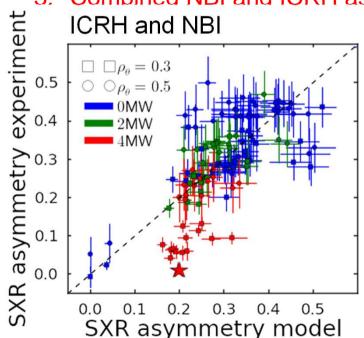


W IMPURITY POLOIDAL ASYMMETRIES OBSERVED AT ASDEX UPGRADE USING SOFT-X-RAY TOMOGRAPHY RECONSTRUCTION (D. MAZON)

- General purpose: Understand transport physics through SXR tomography with the goal to demonstrate acceptable W concentration (and potentially control) in H-mode and extrapolate to ITER/DEMO.
- 1. Centrifugal asymmetries: centrifugal model reproduces well the experiment observed asymmetries
- 2. Fast particle driven poloidal electric field: discrepancies between TORIC SSFPQL and experimental results of asymmetry, limitation in HFS ICRH model?

 Combined NBI and ICRH asymmetry effects, study competing effects of LFS ICRH and NBI



- Evolution of measured asymmetry against centrifugal force model at two different normalized radii (0.3 and 0.5)
- Clearly at the ICRH location, ρ_{θ} = 0.3, there is a clear discrepancy when 4MW heating is added. The measured asymmetry is clearly overestimated by simulation, as confirmed by TORIC code (red star) when including electric field created by trapped fast particles.

More detailed analysis of transport is on going with NEO and GKW codes