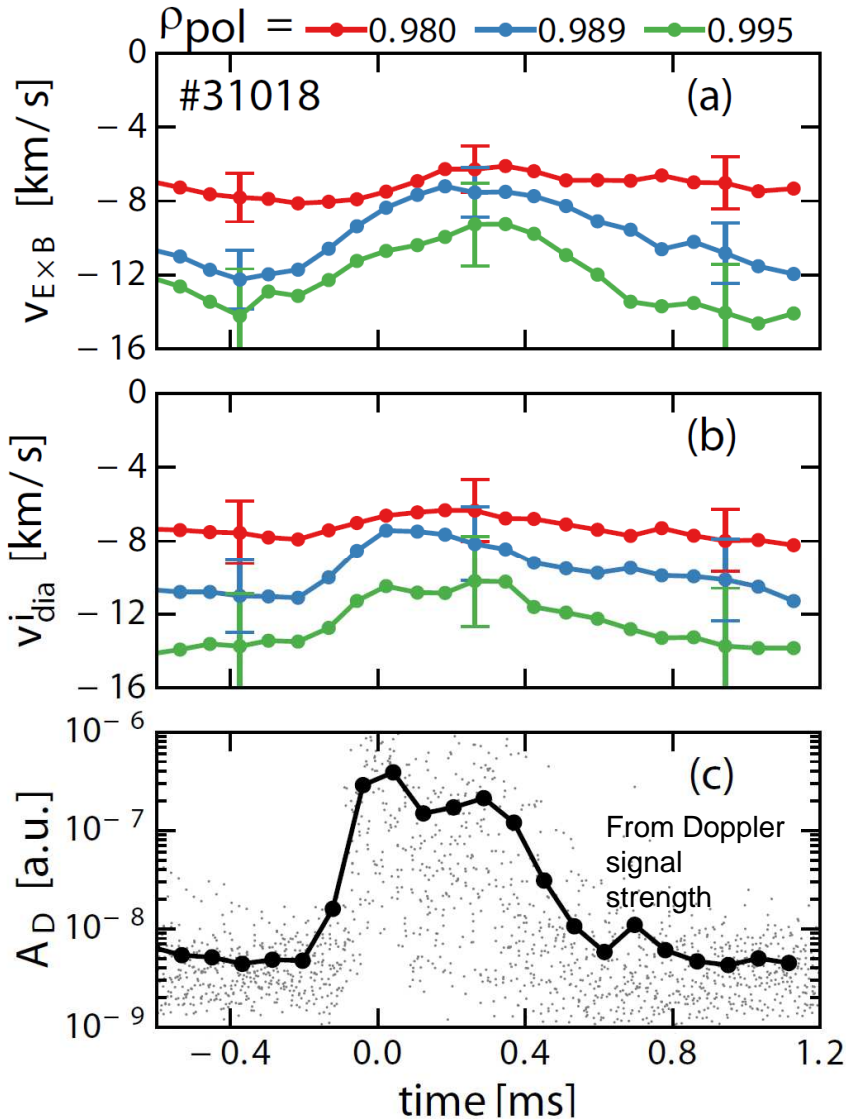


Turbulence-Flow Interaction Investigated at the L-H transition in ASDEX Upgrade



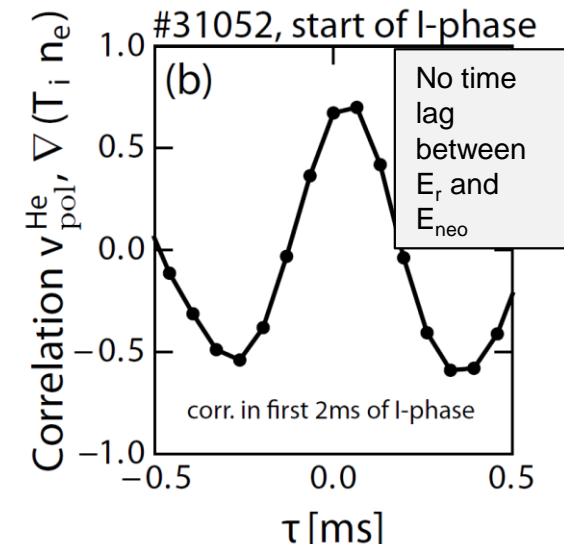
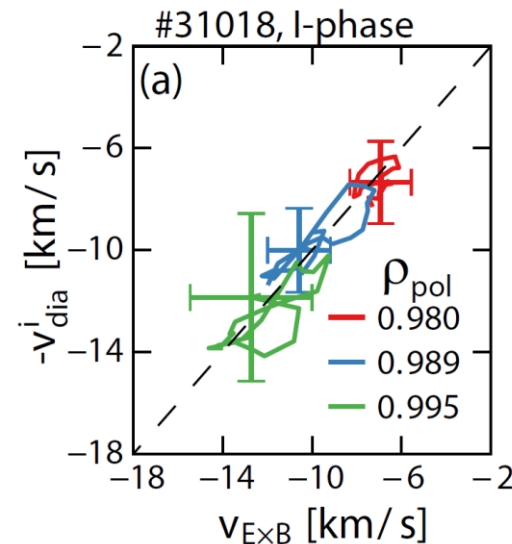
- New CXRS diagnostics with 50 μ s temporal and 3 mm radial resolution – **investigating LCOs at the L-H transition [1]**

⇒ Measurement of ion properties and E_r

⇒ Compare neoclassical $E_{neo} \times B$ ($\sim v_{dia}^i$) to measured ExB

- **no deviation between E_r and E_{neo}**

- **no significant interaction between turbulence and flows, no large effect of ion orbit losses**



Above: Burst in 'I-phase' – Turb. (A_D), E_r and E_{neo} move in phase & $E_r = E_{neo}$