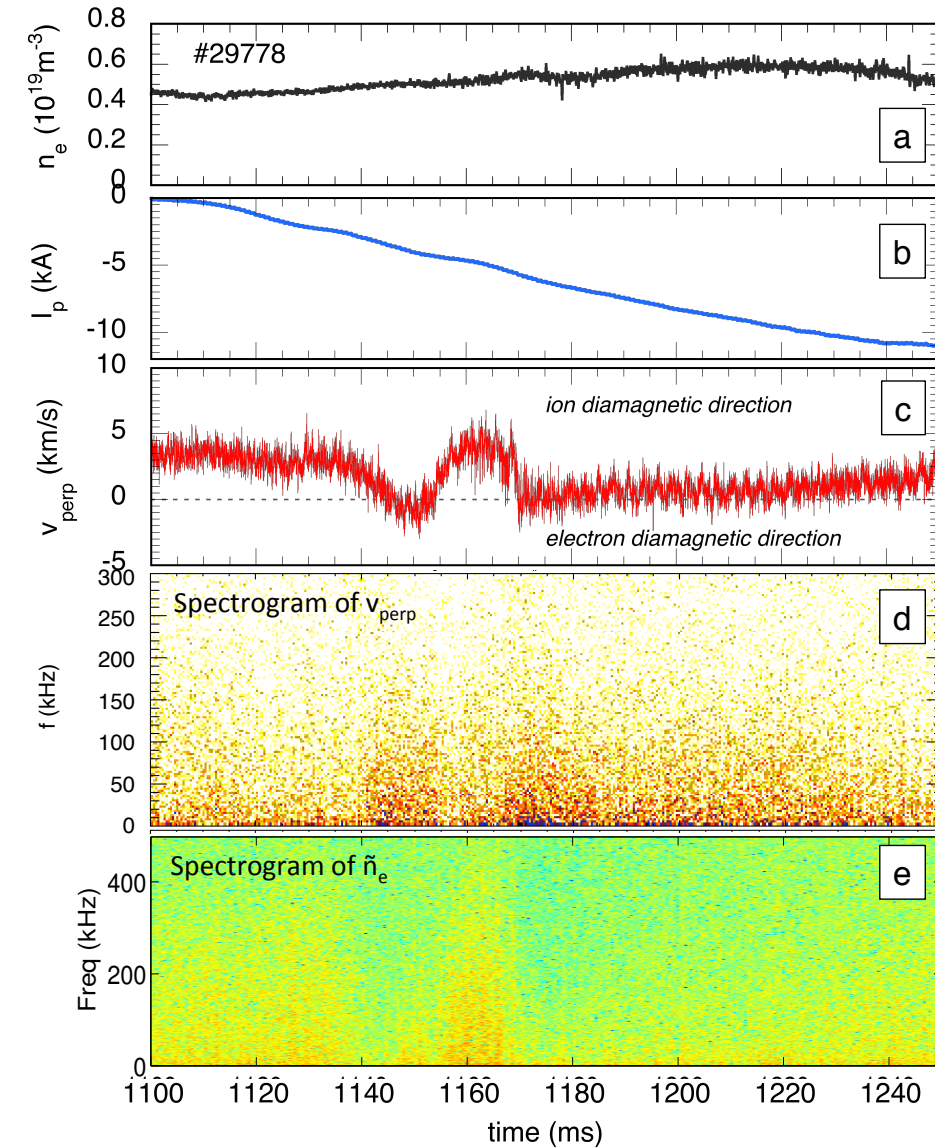




EXC/P7-45



Effect of the 3/2 magnetic island on plasma flow and turbulence as measured by Doppler reflectometer:

- a modulation in the perpendicular flow (c): the flow reverses at the centre of the magnetic island and a flow shear develops at the island boundaries
- an increase in the perpendicular flow fluctuation intensity (d) and a reduction in the density fluctuation level (e) at the island boundaries

These observations could explain the link between magnetic islands and transport barriers observed in a number of fusion devices

T. Estrada et al., *Nuclear Fusion* **56**, 026011 (2016)