Recent pedestal studies at ASDEX Upgrade.

EXP/3-1

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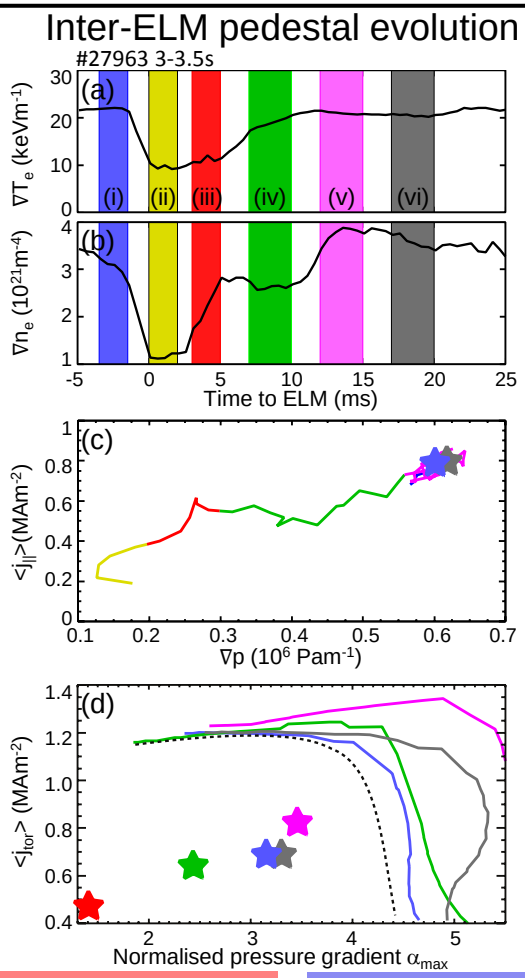

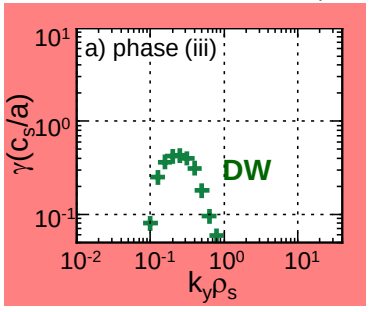

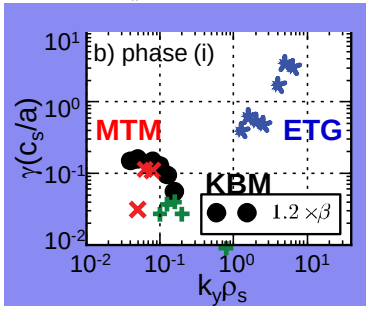

- Asymmetry in impurity ion flows are neoclassical.
- Edge current density is neoclassical.
- Density build-up after L-H transition can be modelled with purely diffusive edge barrier. If pinch exists, then $|v| < 0.5$ ms^{-1}.
- Inter-ELM pedestal evolution shows different phases.
- Ideal peeling ballooning stability analysis: boundary moves closer to experimental point towards end of ELM cycle, because pedestal widens.
- Gyrokinetic analysis (GENE): ∇n_e driven drift waves are dominant in early phase (iii), MTM and ETG are unstable in late phase (i), KBM close to stability limit.
- Experimental evidence from ECEI: MTM at top of pedestal. Can couple nonlinearly into ballooning modes in pedestal.