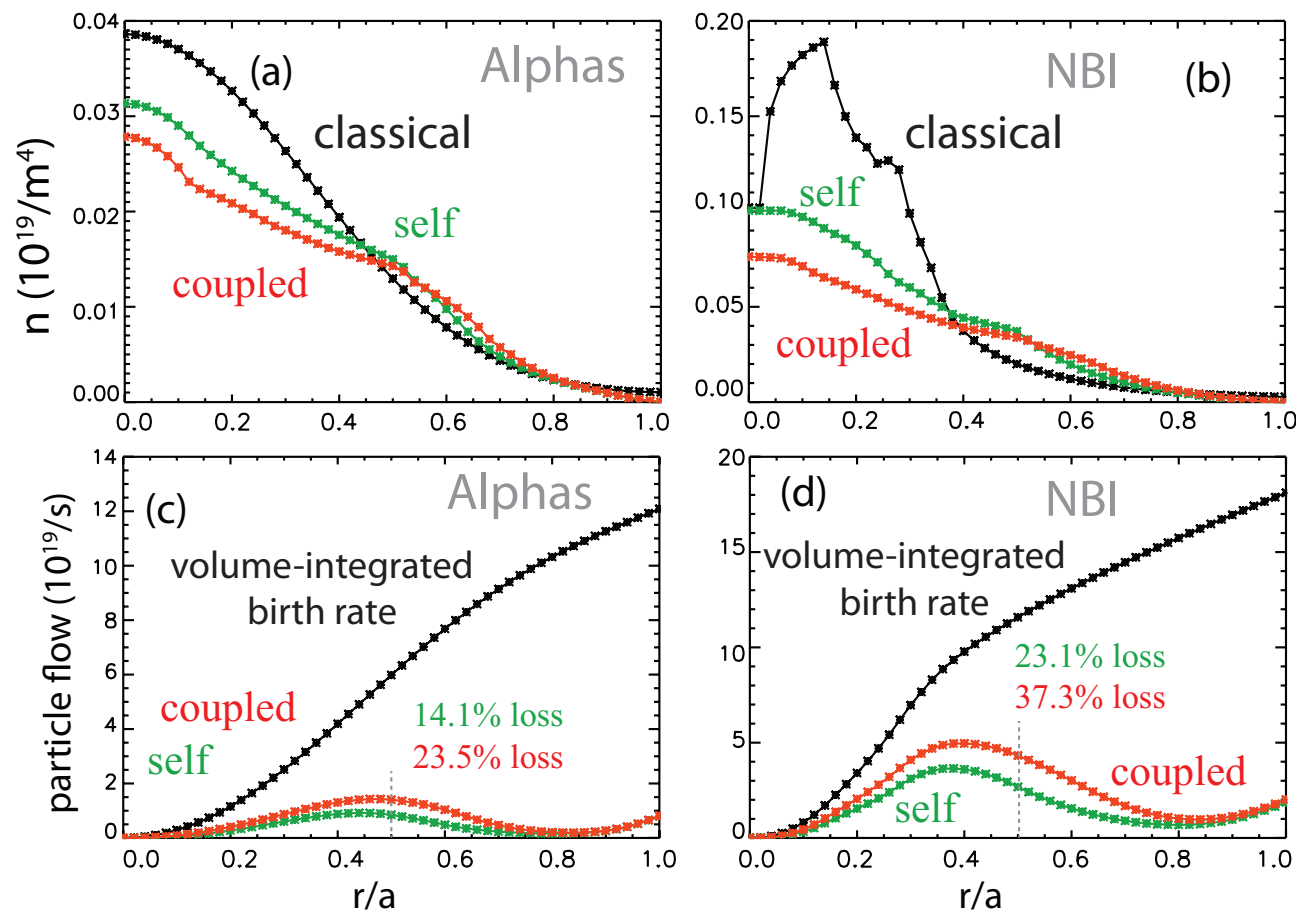


A local critical gradient model predicts Alfvén eigenmodes only broaden alpha particle and NBI ion profiles in ITER

E.M. Bass TH/6-2



Self-consistent transport with **coupled drive** (simultaneous drive by alphas and NBI ions) is about **50% larger** than **uncoupled transport**.

- Losses from mid-radius are redeposited.
- Small edge loss driven by ITG/TEM background.

Lower shear and higher q exacerbate transport, but **shear is the more important parameter**.

Half-current (steady-state) and reversed- and low-central-shear ITER scenarios have comparable energetic particle transport. Higher central shear is very beneficial.