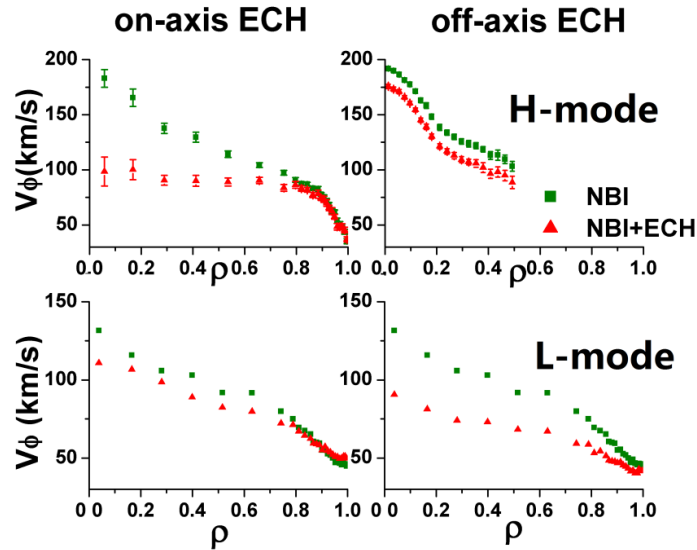


Toroidal Rotation Profile Structure in L- and H-mode KSTAR Plasmas

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Rotation Profiles for ECH+NBI plasmas



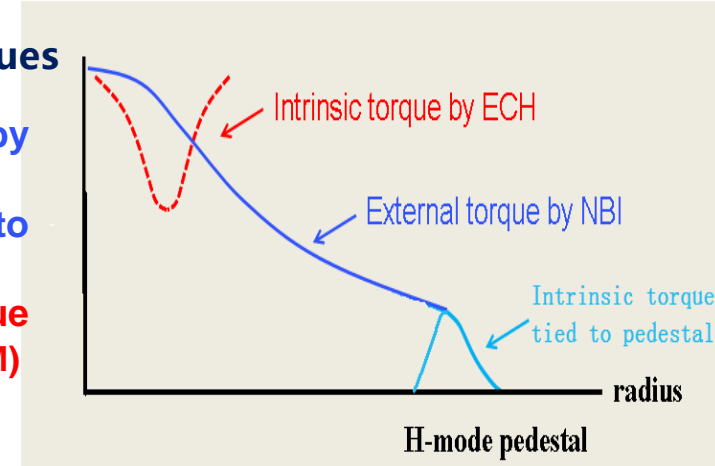
H-mode : on-axis ECH make larger ΔV_ϕ ,
Clear pivot point inside pedestal
L-mode : off-axis ECH make larger ΔV_ϕ
No pivot point in rotation profile

•ITG \rightarrow TEM transition occurs
inner region for on-axis ECH
outer region for off-axis ECH

Rotation scenario for ECH+NBI plasmas

Interplay of three torques

- External torque by NBI
- Intrinsic torque tied to pedestal
- Core intrinsic torque (due to ECH, ITG \rightarrow TEM)



Linear gyro-kinetic analysis of ECH+NBI L-mode plasmas

