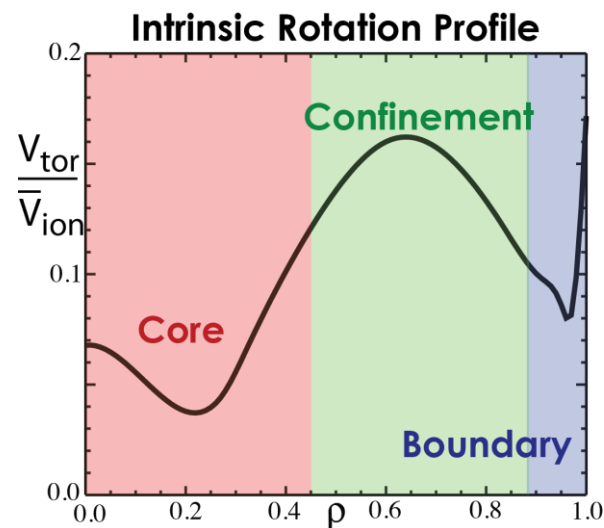
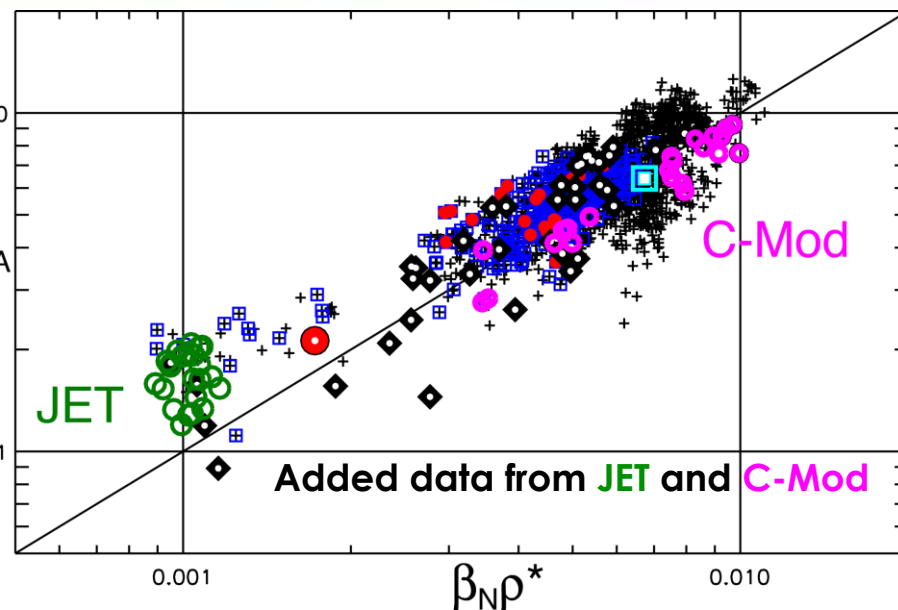


DIII-D Establishes Dimensionless Empirical Scaling for Intrinsic Rotation

- Empirical multi-machine intrinsic rotation scaling shows

$$M_A = V_{\text{tor}} / V_{\text{Alfvén}} \sim \beta_{\text{NP}}^*$$

- Applicable to the “**confinement**” region of the rotation profile.
- Predicts ITER H-mode intrinsic rotation, $f \sim 700$ Hz, for an inductive scenario.



Intrinsic magnitude alone likely not helpful for stability, but shear may yet enhance confinement