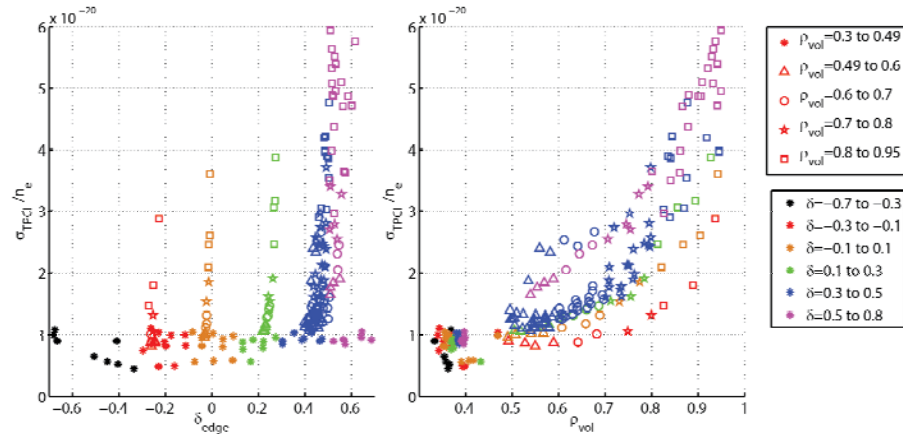
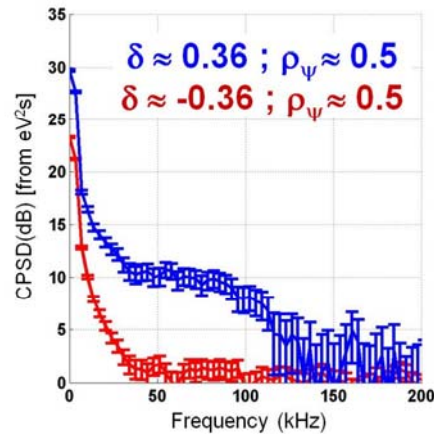
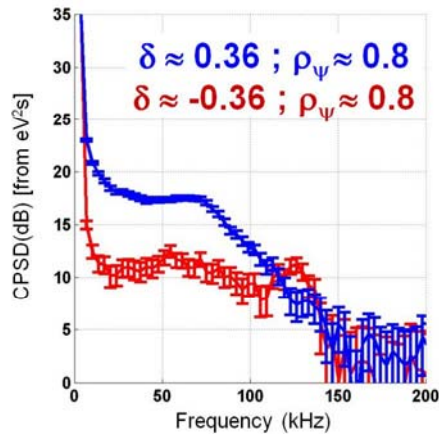




Multi-Diagnostic Study of Core Turbulence and Geodesic Acoustic Modes in the TCV Tokamak

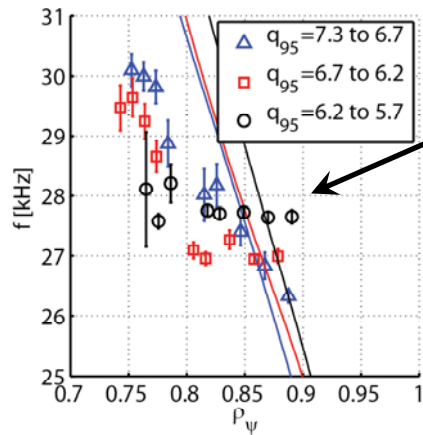
EX/P3-57

BROADBAND CORE TURBULENCE



- $\delta T_{rad} / T_{rad} \uparrow$ with ρ_{vol} and with δ going from $-ve$ to $+ve$
 - $\delta n/n \uparrow$ with ρ_{vol} from core plasma to the edge
 - $\delta n/n \uparrow$ with δ from negative to positive
- δ effect less significant deeper in the core but still present

GEODESIC ACOUSTIC MODE



GAM single eigenmode to continuum spectrum transition at high q_{95}

GAM amplitude is \approx constant during density ramp-up, while core turbulence increases. Eventually GAM becomes undetectable. Is collisional damping compensating increased drive or reduced energy transfer from turbulence?

