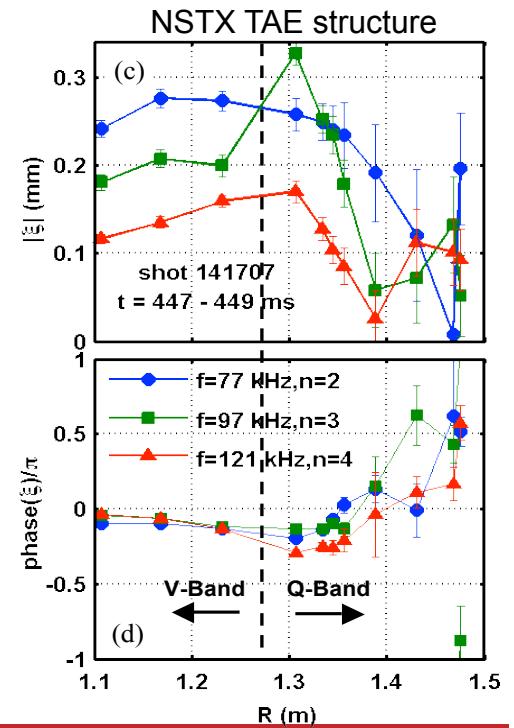
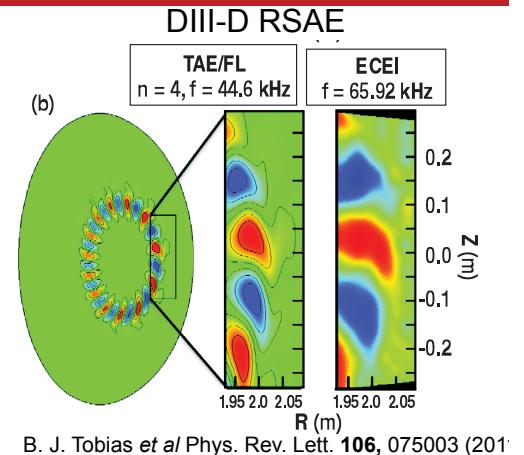
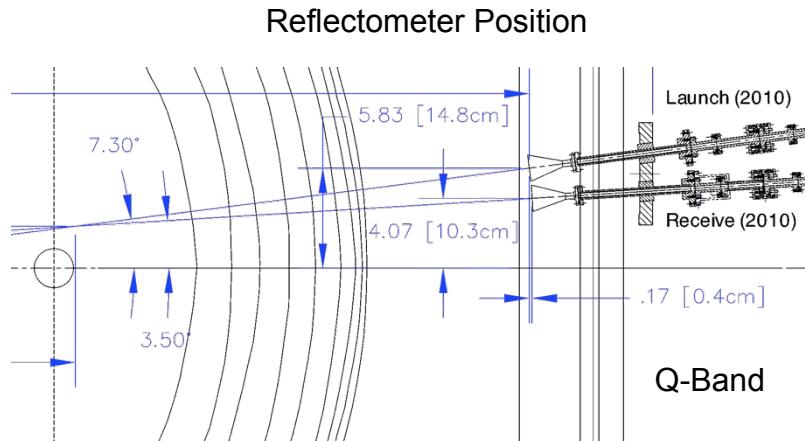
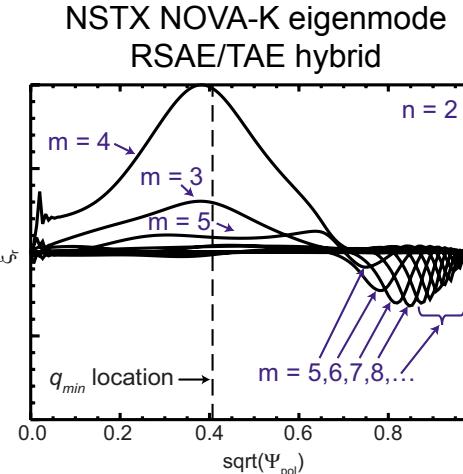


TAE phase varies strongly with radius – Investigate cause

- Reflectometers measure **strong radial TAE phase variation**
Possible explanations for phase variation
- Coupling to fast-ions** – predicted by code (TAE/FL in DIII-D, M3D-K in NSTX)
- Elevation of reflectometers + broad poloidal harmonic spectrum** -
predicted by NOVA-K (ideal MHD) in NSTX
Experiment: isolate cause
- Position **reflectometers in midplane**
- Measure **local k_Θ** – small vertical jogs
- Compare measurement with **NOVA-K & M3D-K**



M3D-K calculation of TAE phase and amplitude

