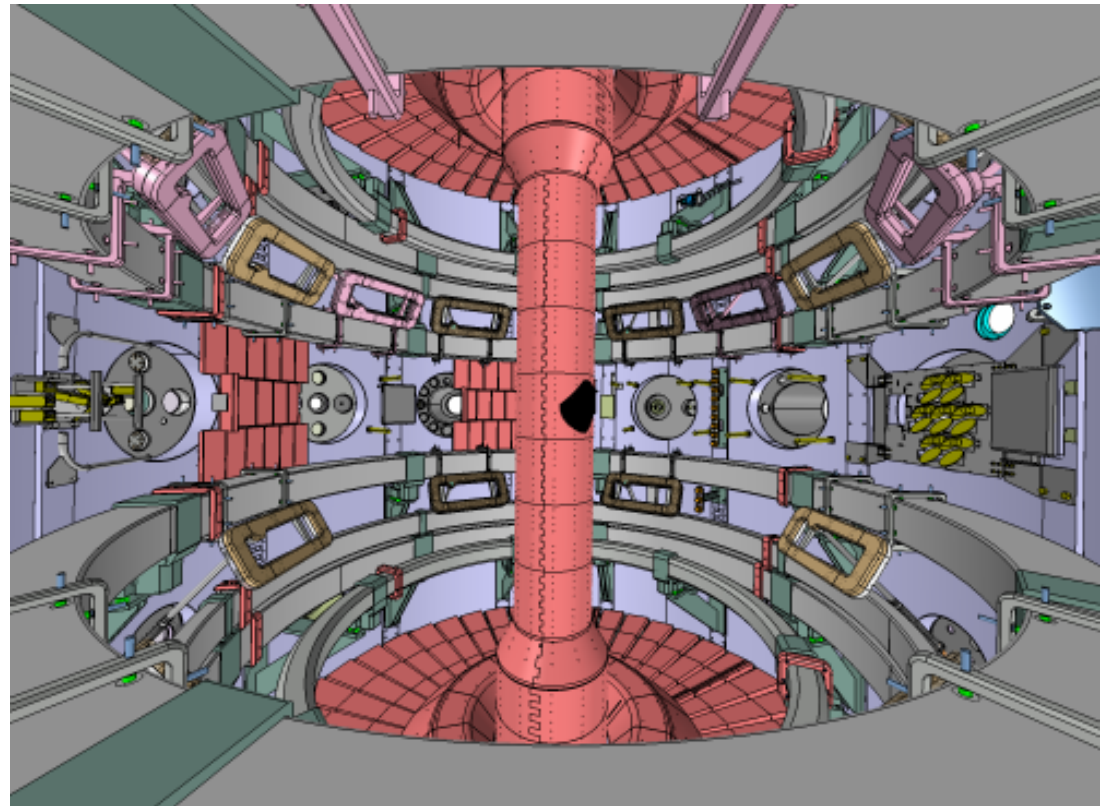
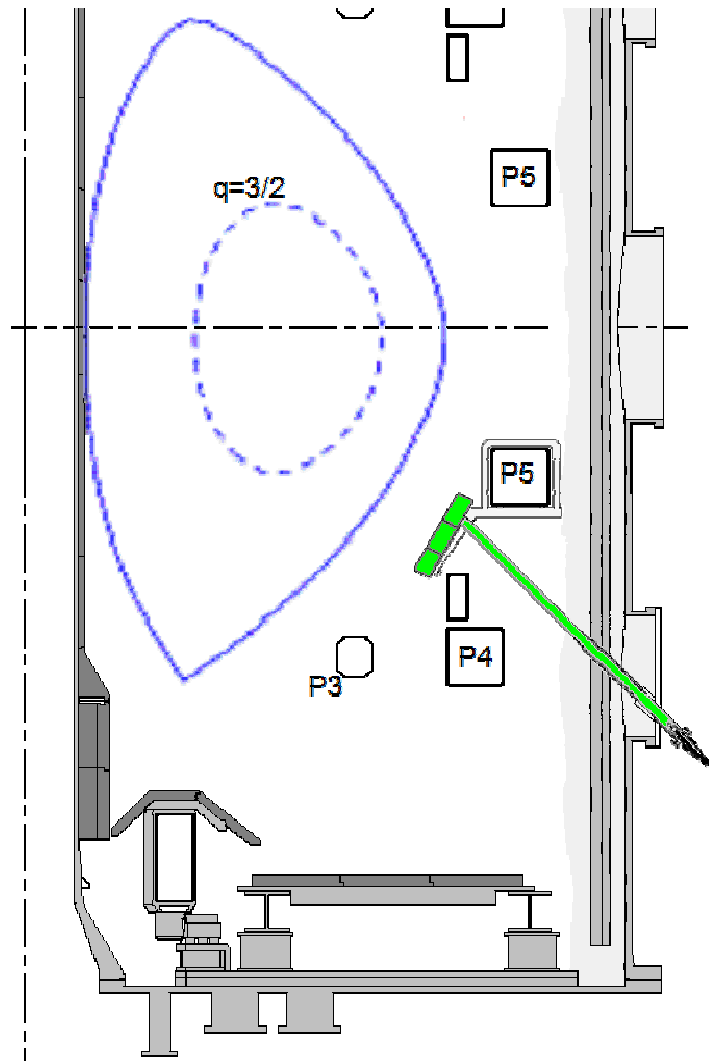




MAST TAE Excitation System

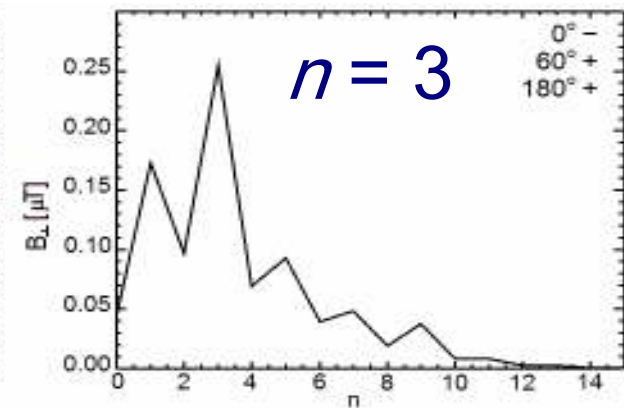
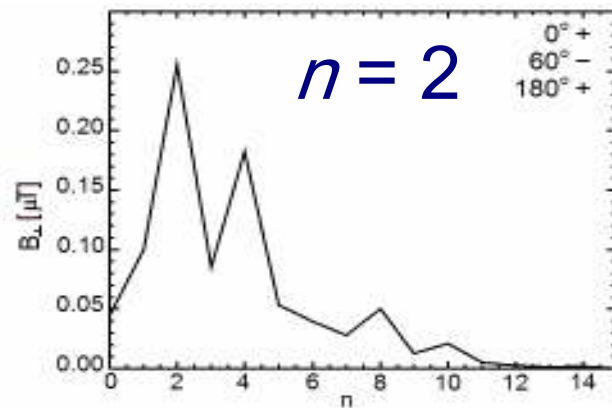
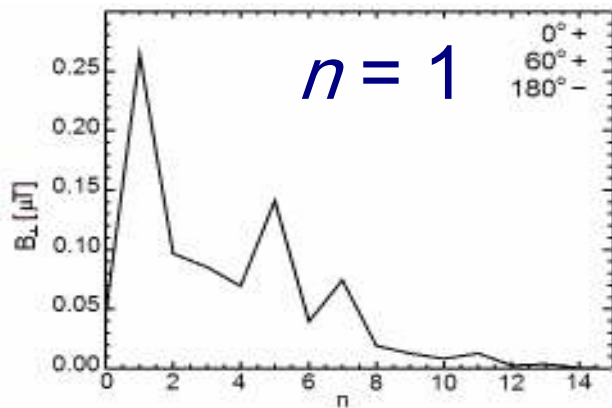
SD Pinches, R Martin,
M Gryaznevich, T Hender,
R Leclercq

TAE coils



Driven Spectra

- Toroidal spacing (0° , 60° and 180°) allows dominant $n = 1, 2$, or 3
- Fourier decomposition of field perturbation perpendicular to $q = 3/2$ surface shown
- Calculated for a coil current 4 A.turn



TAE Damping Rates

- Synchronous detection software almost complete
- Fits to system transfer function

