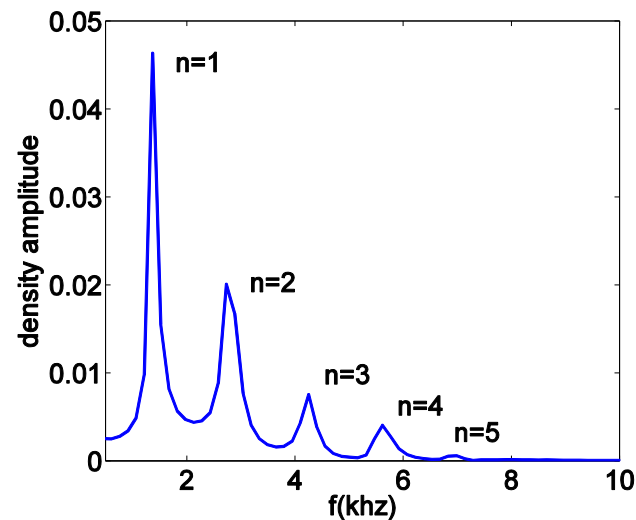
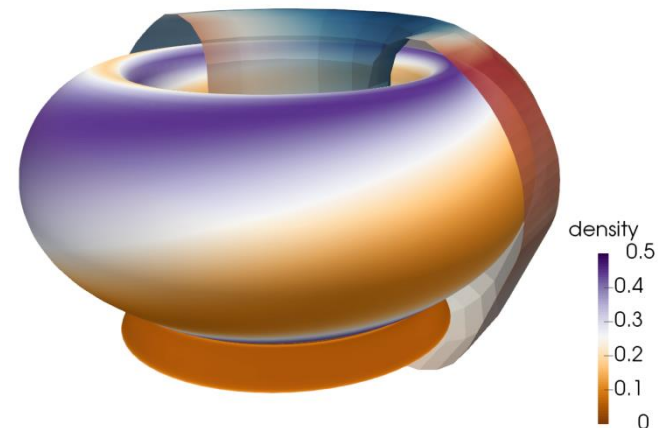


Nonlinear MHD simulations of Quiescent H-mode pedestal in DIII-D and implications for ITER

- Non-linear MHD simulations of DIII-D QH-mode plasmas found that **low n kink-peeling modes (KPM) are unstable and saturate to EHO phase.**
- The characteristic **density fluctuations and spectrum** at the edge are **consistent with the EHO in DIII-D experiments.**
- **ELMs-like behavior found with condition of lower edge current and higher pedestal pressure.**
- application of **RMP n=3 mode** effectively **stabilises the other toroidal harmonics** in QH-mode.
- Nonlinear simulation results of **ITER Q=10 plasma for n=0-1 modes** show a **saturated kink/peeling mode.**



Spectrum of density for DIII-D QH-mode plasma



ITER plasma with n=0,1 modes