

# Low-k turbulence correlation lengths and poloidal flow fluctuations in NSTX plasmas

- General characteristics of low-k turbulence in NSTX
  - $L_c \sim 10$  cm,  $k^* \rho_s \sim 1$ ,  $f \lesssim 100$  kHz
- $L_c$  in L-mode & H-mode
- $L_c$  and v-pol in H-mode scans
  - $I_p$  scan (q95  $\rightarrow$  GAM ZF)
  - Bt scan
  - $|B|$  scan (collisionality  $\rightarrow$  transport)
  - Core & pedestal (q  $\rightarrow$  GAM ZF)
- Status
  - 2010 data may be sufficient, but 2011 data with extended poloidal arrays would add substantial value

