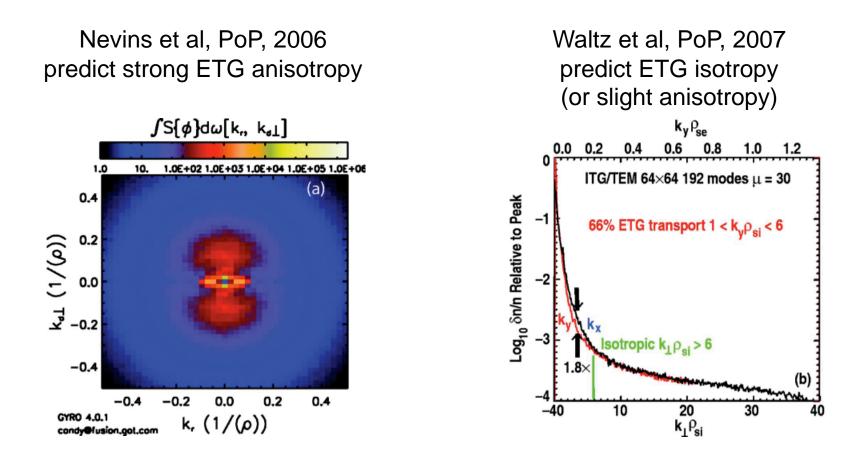
## XP to investigate the $k_r$ - $k_{\theta}$ isotropy of high-k fluctuations

David Smith UW-Madison

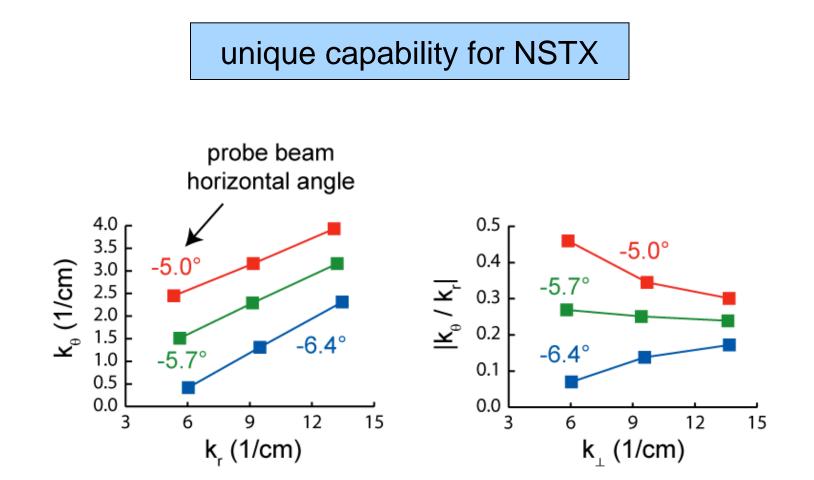
June 12, 2009 NSTX Mid-Run Assessment

## The $k_r$ - $k_{\theta}$ isotropy of ETG turbulence is an area of disagreement among NL GK simulations

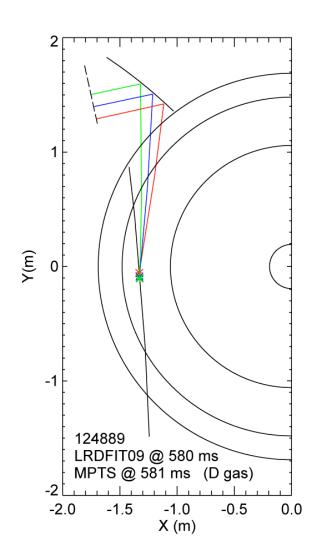


ETG radial streamers are anisotropic features (simulations above do not use the same plasma conditions)

The NSTX high-k scattering system can access a wide range of  $k_{\theta}/k_{r}$  ratios



## Previous measurements provide a starting point



700 kA, 5.5 kG, 4 MW NBI baseline shot: 124889

high-k measurements at R=133 cm and r/a=0.55

