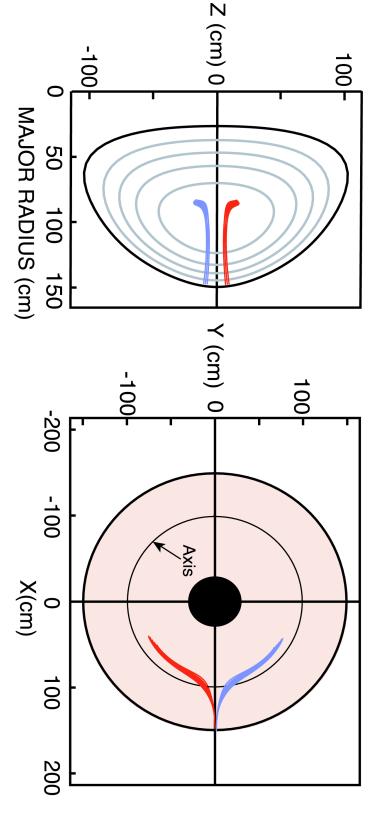
EBW Current Drive Direction Changed via Poloidal Launch Angle

EBW Frequency = 12 GHz, $-0.25 < n_{//} < 0.25$, 10 cm pol. length _aunched 10 deg. above mid-plane

_aunched 10 deg. below mid-plane

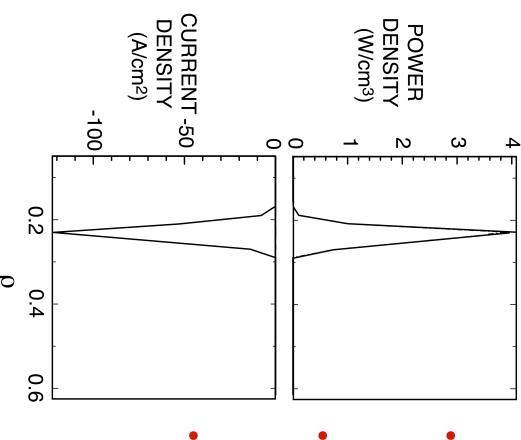
NSTX β = 12%, n_{eo} = 2x10¹⁹m⁻³, T_{eo} = 1 keV







At β = 12% NSTX Plasmas with n_{eo}=2x10¹⁹m⁻³,T_{eo}=1 keV EBW Current Drive Efficiency with 1 MW is ~ 0.1 AW-1



- At $\beta \sim 40\%$ current can be driven on the HFS, but at lower efficiency
- At $\beta \sim 40\%$, $n_{/\!/}$ trajectory very sensitive to magnetic equilibrium
- Need to optimize n_{//} at the EBW power deposition region

