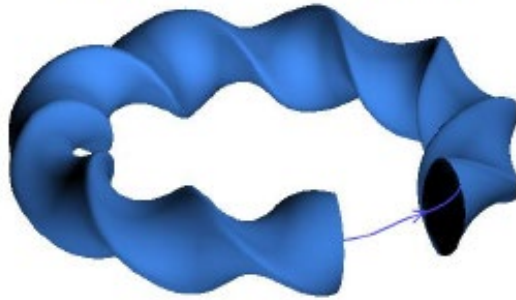


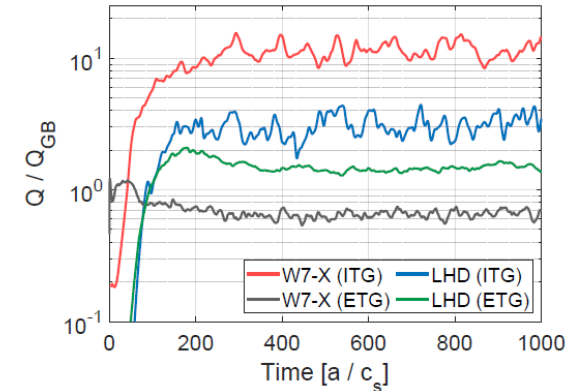
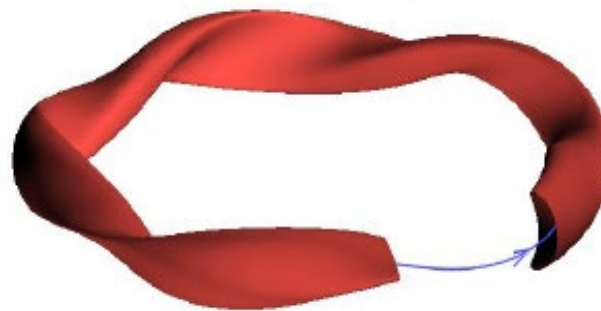
MAGNETIC CONFIGURATION EFFECTS ON TURBULENCE DRIVEN TRANSPORT FROM LHD AND W7X IDENTICAL EXPERIMENTS

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Large Helical Device (LHD)



Wendelstein 7-X (W7-X)



$R=3.6\text{m}$, $a=0.6\text{m}$ $V=30\text{m}^3$
High shear, high helical ripple
Enhanced neoclassical transport

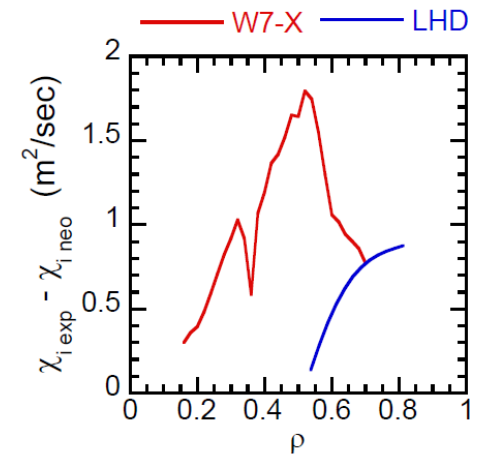
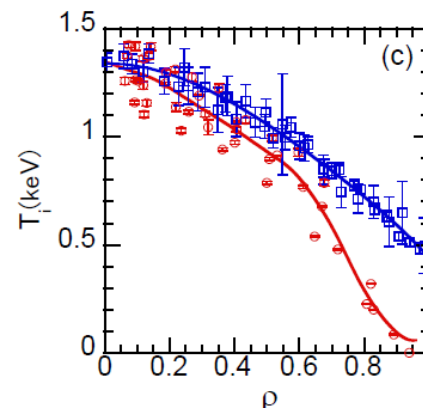
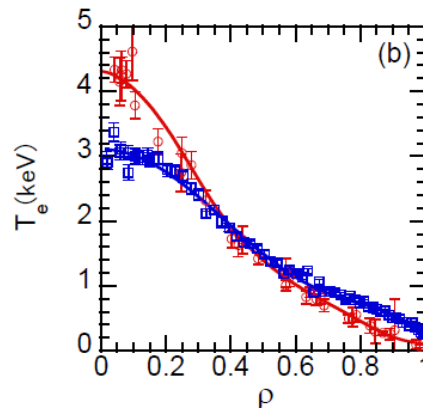
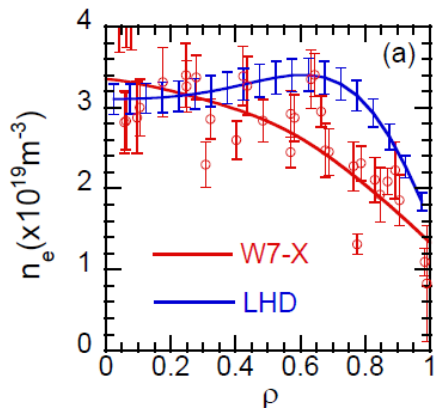
$R=5\text{m}$, $a=0.5\text{m}$ $V=30\text{m}^3$
Low shear, low helical ripple
Reduced neoclassical transport

Identical input $a/L_T=3$, $a/L_n=0$

$Q_{\text{ITG}} \text{ LHD} < \text{W7-X}$

$Q_{\text{ETG}} \text{ LHD} > \text{W7-X}$

2MW ECRH



Anomalous contribution is lower in LHD. This agrees with GK NL quantitatively.