

Measurement of Plasma Rotation Speed for CHI Experiments on NSTX and SSPX

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Goal

Investigate coaxial helicity injection (CHI) current drive mechanism for Spherical Torus plasmas by measuring the plasma rotation by Ion Doppler Spectroscopy (IDS) and the toroidal mode of MHD fluctuations. And also to compare current drive mechanisms between tokamak and spheromak plasmas.

The work will expand on initial measurements conducted in FY 01.

