

# Research Plan Logic – Temporal Progression of Research Activities

	Early Run	Mid-Run	Late Run
<b>H&amp;CD</b>	HHFW system shakedown Electron heating HHFW/fast ion interaction EBW mode conversion	HHFWCD HHFW/NBI comparisons (rotation) HHFW H-modes	HHFWCD w/j(r) measurements
<b>CHI</b>	CHI transient startup	High CHI currents CHI plasma control development	Demonstrate flux closure CHI edge CD CHI->non-ind. CD
<b>MHD</b>	EF/RWM sensor calibration Locked mode studies Fast ion and CAE studies	RWM rotation effects, passive stab. ELM physics Similarity experiments High- $\beta_T$	Possible active REF/RWM ctl. Stability studies with j(r) meas.
<b>T&amp;T</b>	Global conf. dependences & local transport studies Fast ion htg. & confinement	$P_{\text{thresh}}$ scaling Similarity experiments	Dimensionless scalings Characterize fluctuations
<b>Bdy</b>	He conditioning Density control	Li/B pellets Improved boronization/TMB fueling Heat flux scaling and edge char.	Fast edge transport Detached divertor
<b>ISD</b>	rtEFIT development	HHFW/NBI compatibility Long-pulse H-modes	High- $\beta_T \tau_E$ Quasi-steady 1 sec discharges

*Research elements scheduled according to start, not finish*