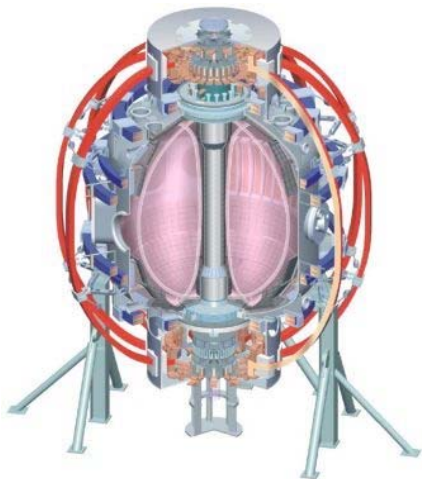


Measuring the HHFW wavefield with turbulence diagnostics

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following discussions with R. Fonck and J. Hosea

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Measuring the HHFW wavefield with turbulence diagnostics

- Goal: Measure density fluctuations associated with the HHFW wavefield using turbulence diagnostics by launching HHFW with **10 kHz amplitude modulation**
- If successful, this technique provides a new measurement tool for **validating HHFW simulations**
- J. Hosea and E. Fredd believe 10 kHz amplitude modulation with $0.1 \text{ MW} < P_{\text{RF}} < 1 \text{ MW}$ is possible
- $P_{\text{NB}} \geq 2\text{MW}$ needed for BES measurements
- 0.5 days

BES coverage from R = 116-152 cm

