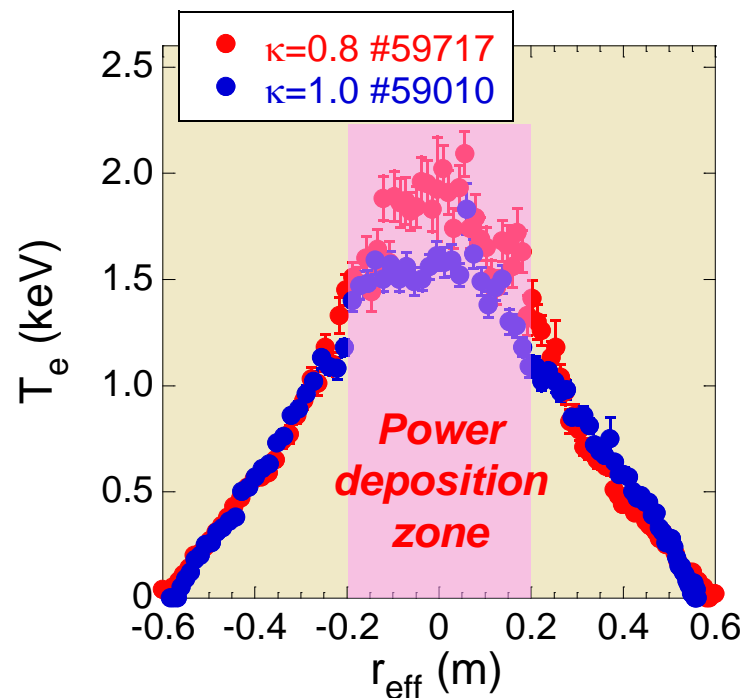
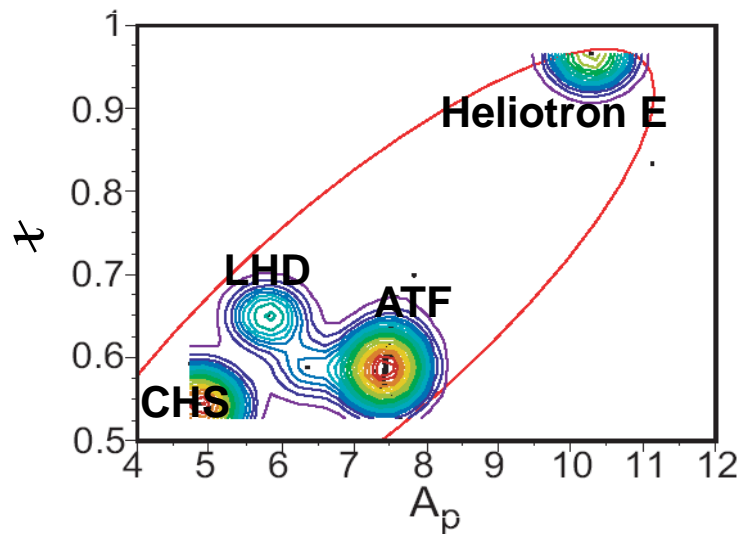


# Dependence of $\tau_E$ on rotational transform/shear

$$\tau_E^{ISS04} = 0.134 a^{2.28} R^{0.64} P^{-0.61} \bar{n}_e^{-0.54} B^{0.84} t_{2/3}^{0.41}$$

Ambiguity in iota dependence has not been clarified.

Heliotron/Torsatron line : Strong shear  
Correlation between iota and aspect ratio



## Contribution from LHD

aspect ratio control + limiter, limited to central ECH heating at 1.5T.

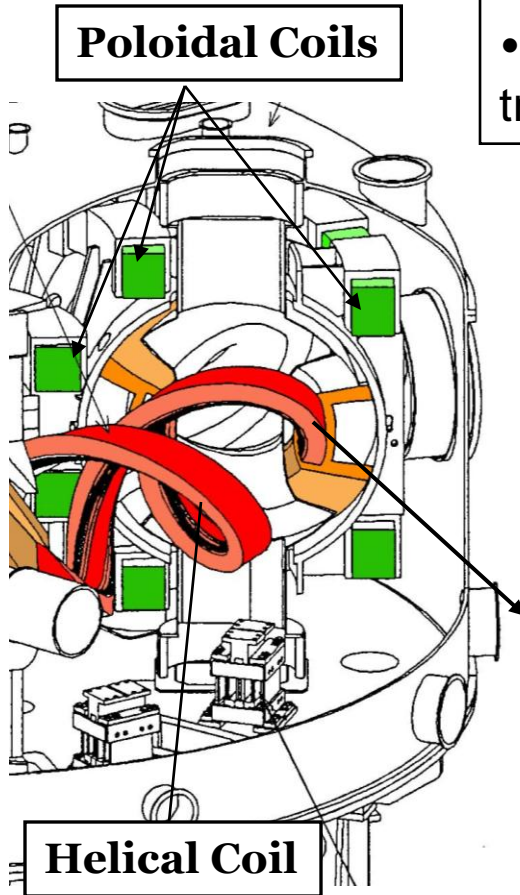
Comparison of dimensionally similar discharges will be done by Feb.2008



# Aspect-ratio control in LHD

- Capability of current center of helical coil enables aspect ratio scan

- Aspect ratio of 5.8 ~ 8.3 for  $R_{ax} = 3.6$  m configuration.
- High aspect-ratio configuration has high rotational transform which restrains the plasma shift.



Pitch parameter

$$\gamma = \frac{m}{n} \cdot \frac{a_c}{R}$$

