## Contributions from "A multi-machine analysis of non-axisymmetric and rotating halo currents" (EX/P6-46)

- ITPA-initiated study of halo current non-axisymmetry and rotation in C-Mod, DIII-D, AUG, and NSTX
- Some portion of halo current pulses in each machine exhibit nonaxisymmetric and rotating behavior
- a, Halo current rotation frequency scales as f<sub>h</sub> ~ 1/R<sub>0</sub> → characteristic rotation velocity, v<sub>h</sub> ~ 3–7 km/s
- **b**, Halo current duration does not scale strongly with major radius
- Conclusion: The most dangerous rotation frequencies (f<sub>h</sub> < 40 Hz) are unlikely to complete the 2–3 full rotations required for the dynamic amplification of stresses in ITER

