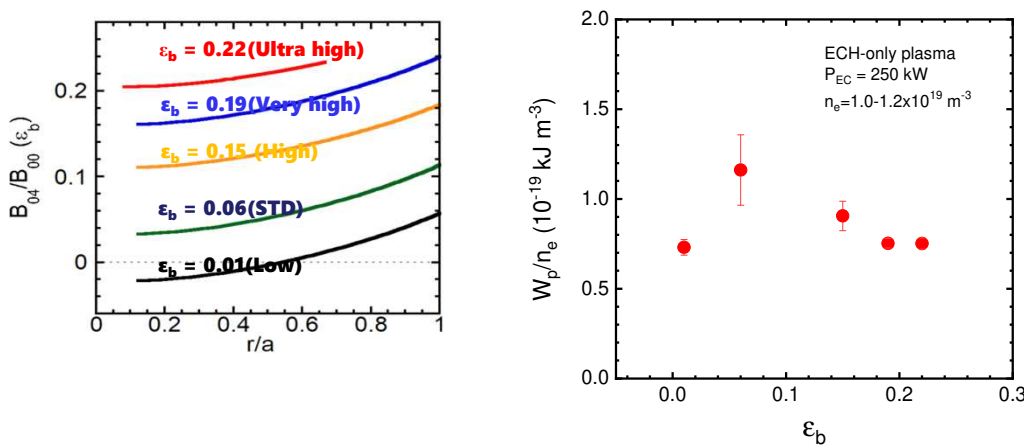


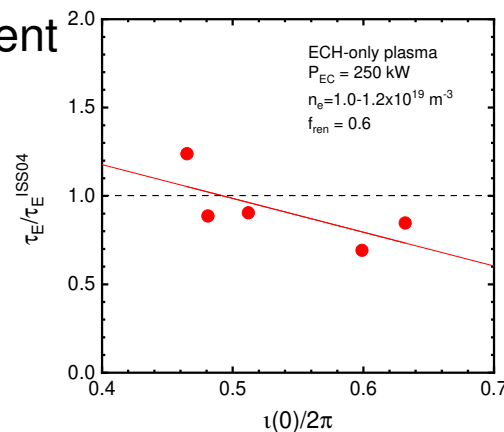
## Effect of bumpiness

- The stored energy is maximal in the medium-bumpiness configuration in which neoclassical transport is reduced



## Effect of rotational transform

- The energy confinement is degraded as the rotational transform increases, which contradicts the ISS04 scaling  $(\iota/2\pi)^{0.41}$



## Energetic-Particle-Driven MHD Modes

- The  $n/m=1/2$  EPM &  $n/m=2/4$  GAE are successfully reproduced by MEGA code
- Some EP-driven MHD modes are mitigated with ECH, and some modes are not.

