## *"Impact of the LHD peripheral region and the magnetic axis shift on optimal on-axis ECRH injection for high-T<sub>e</sub> plasmas" by T. Tsujimura (NIFS)*



Optimization of ECRH injection settings using the upgraded ray-tracing code *"LHDGauss"*:

- I. the rapid-post processing 3D equilibrium mapping calculated during LHD experiments under the Auto Analyzing System
- II. the effect of refraction of rays in the peripheral region

III. optimization of incident wave polarization by calculating the O/X mode ratio



• Central *T*<sub>e</sub> increased

- Successful extension of LHD operational regime
- Polarization scan experiments with modulated ECH
- O/X mode contents are calculated via 1D full-wave simulation