

# High temperature regime was successfully extended in the LHD

- The fusion reaction by  $\alpha$  particle, both the  $T_i$  and the  $T_e$  are high.
  - > The turbulent is **strongly affected by the  $T_e/T_i$**  but **is unclear**.
    - **Realize a plasma both with high  $T_i$  and high  $T_e$ ,**
    - **Clarify its ion thermal confinement characteristics.**
- Optimized plasma operation using **NBI & ECRH mix** to (1) suppress MHD, (2) avoid  $T_i$  degradation in ECRH superposition.
  - > **The high temperature regime was successfully extended.**

