

TH/P4-36: Isotopic Effect of Parametric Instabilities during Lower Hybrid Waves Injection into Hydrogen/Deuterium Plasmas (Aihui Zhao)

- **Model:** Based on the local dispersion relation of the PI, the numerical results are compared in hydrogen and deuterium plasmas under typical SOL parameters.
- **Result:** For different parameters, the growth rates of the ion cyclotron quasimode (ICQM) are calculated for isotopic plasmas. It shows that the ICQM growth rates increase with the increasing densities and the decreasing temperatures and magnetic fields for both hydrogen and deuterium plasmas.
- **Conclusion:** PI still plays an important role in deuterium plasmas.

