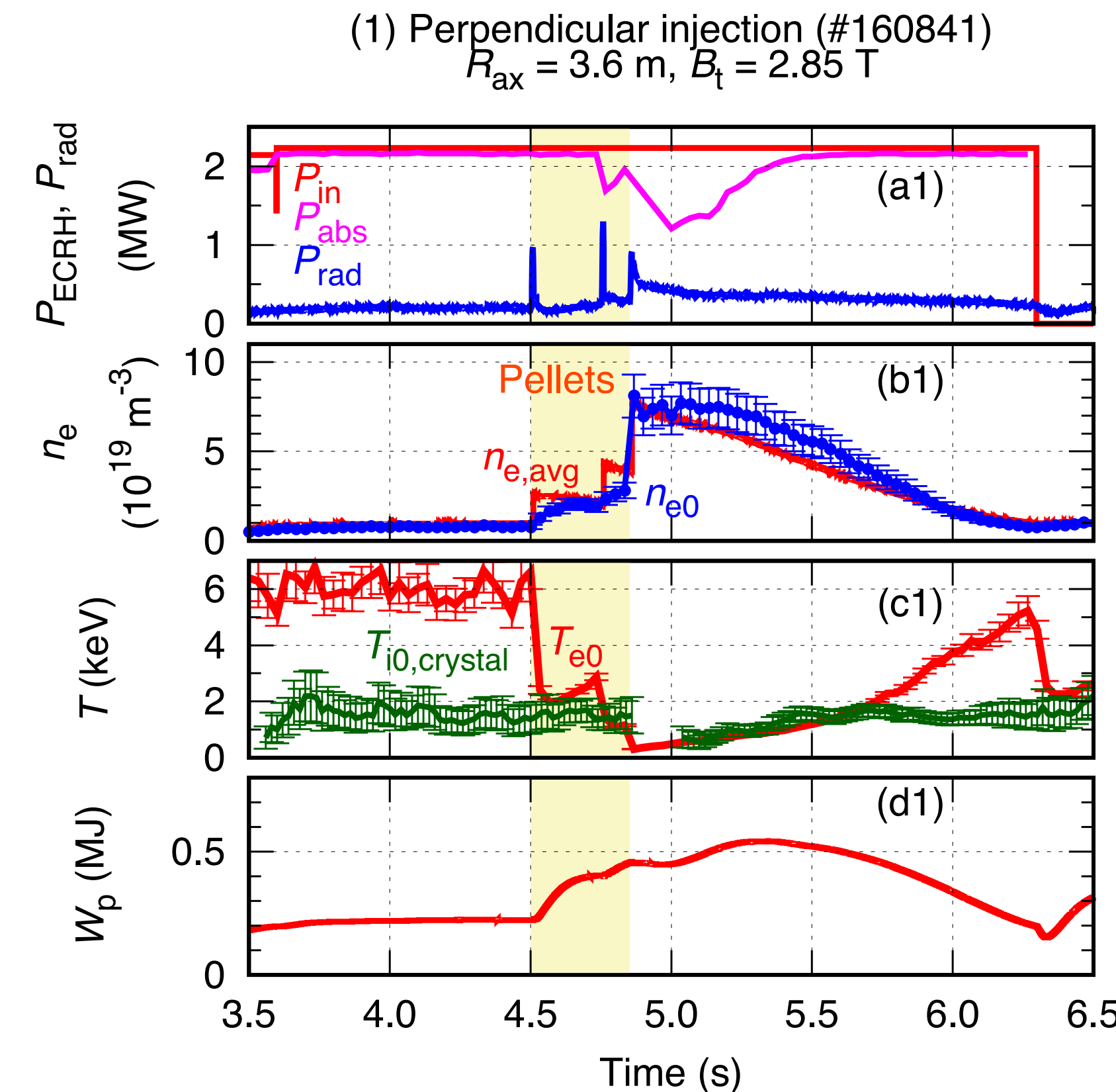
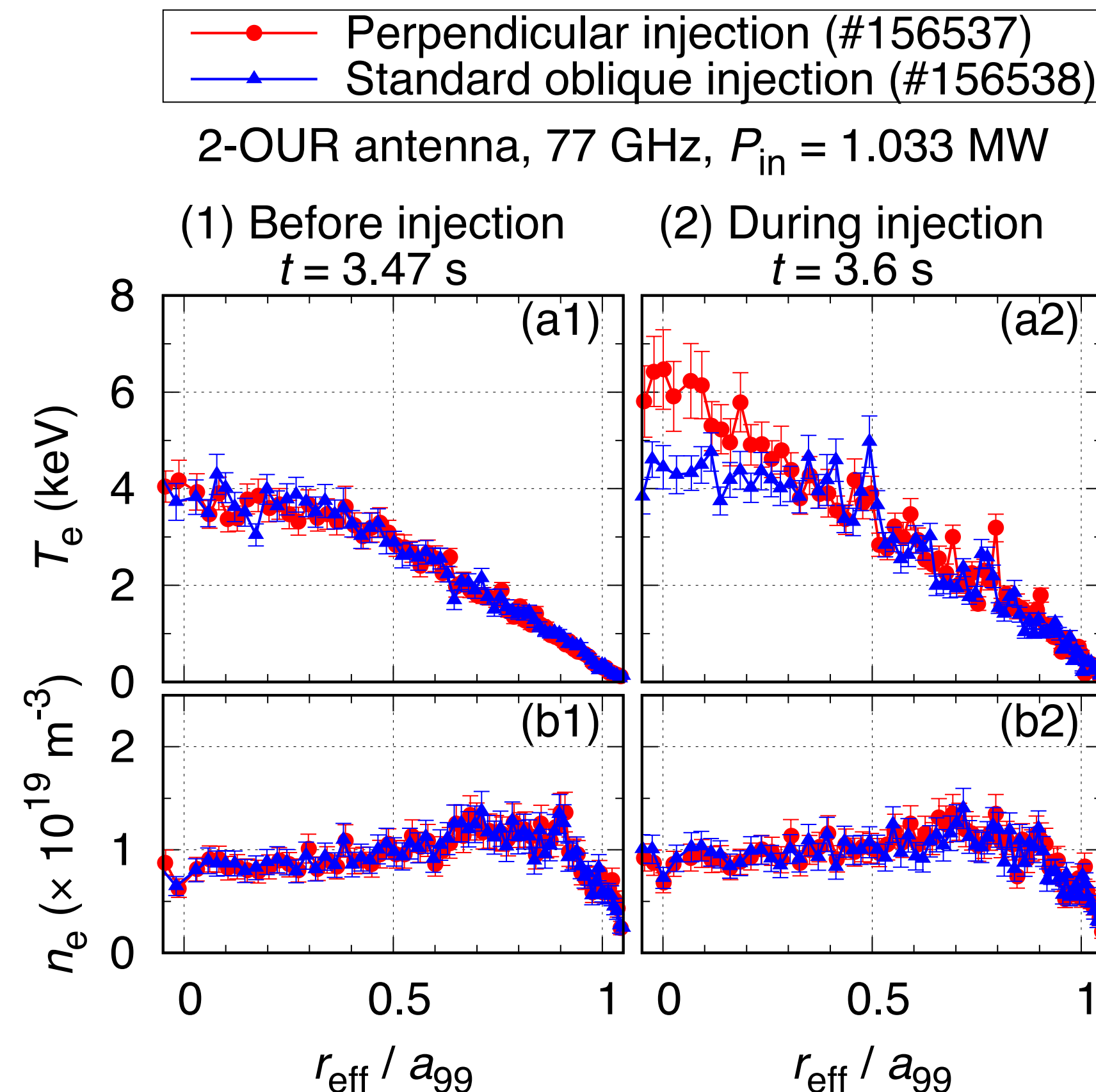
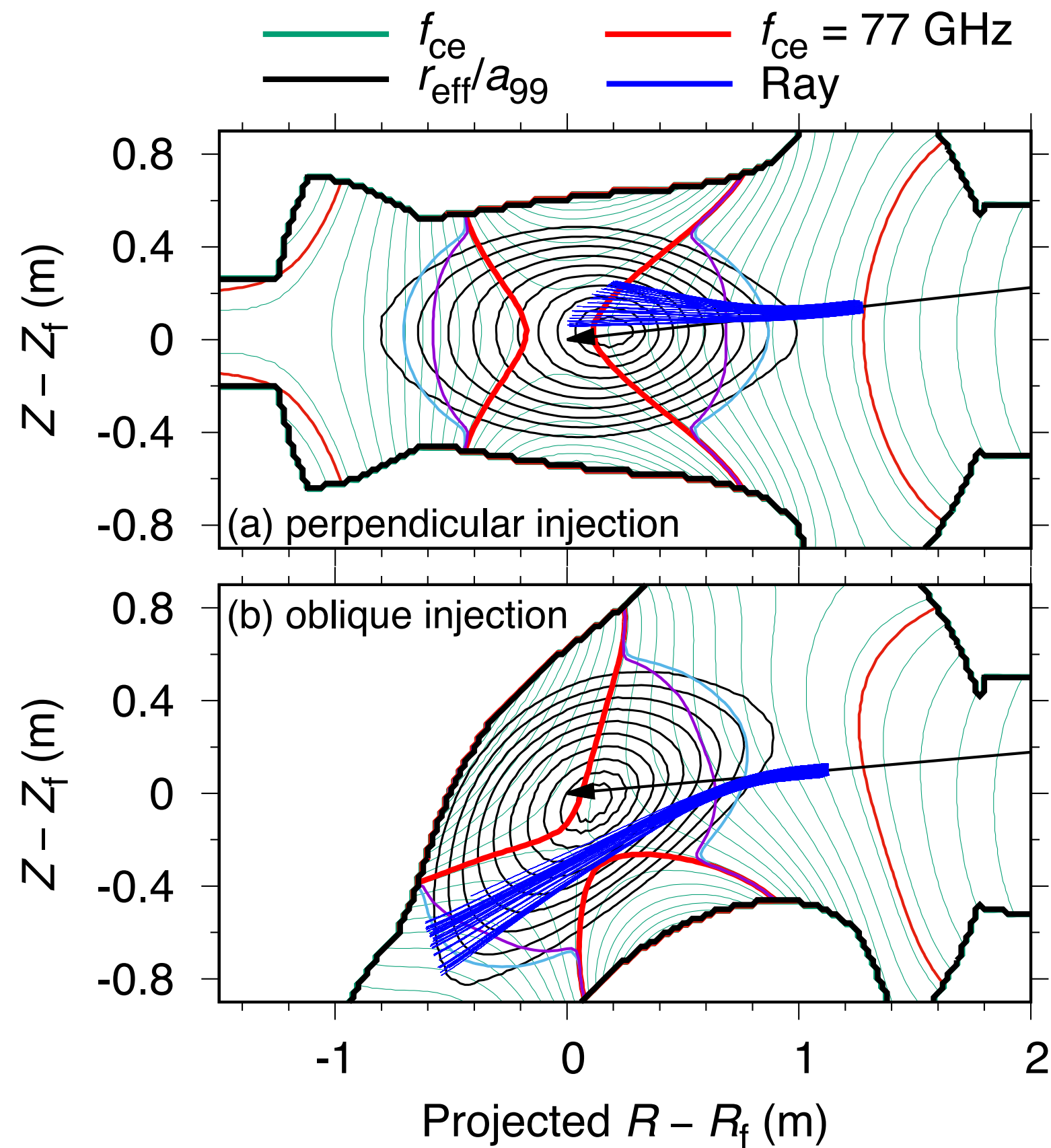


“Improved performance of ECRH by real-time deposition location control and perpendicular injection in LHD” by T. Tsujimura (NIFS, Japan), EX/P6-31, Nuclear Fusion 61 (2021) 026012



- Standard oblique injection is sensitive to refraction by high- n_e plasma.
- **Perpendicular injection is more insensitive to the effect of refraction.**
- Contribution to transport studies for isotope effects of high- n_e ECRH plasma

- T_{e0} increased from 4 keV to 6 keV by perpendicular injection
- **~2 keV increment compared to oblique injection**
- ➔ Contribution to extending high T regime

- **ECRH plasma with $n_{e0} \sim 8 \times 10^{19} \text{ m}^{-3}$ was successfully sustained after injection of three consecutive hydrogen ice pellets for the first time in LHD.**
- Equipartition heating is significant in high- n_e regime: $T_{i0} \sim T_{e0} \sim 1$ keV
- Experiment data in high- n_e ECRH plasma will be expanded.