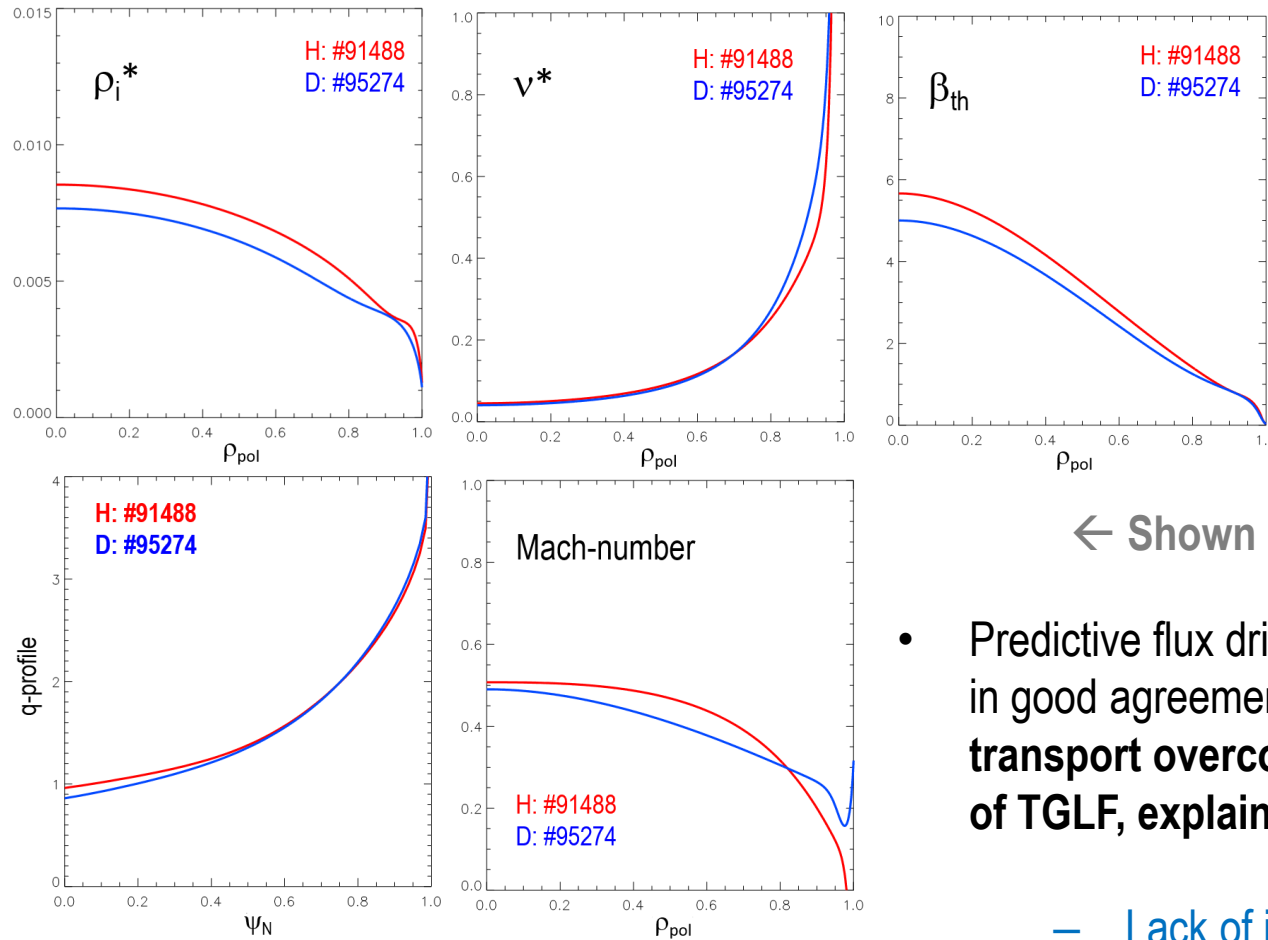


# Isotope identity experiments in JET-ILW with H and D



- Exploiting the change in isotope mass  $A = m_i/m_p$ , L-mode and type I ELMy H-mode pairs obtained in **H** and **D** with similar dimensionless profiles

← Shown here: H-mode pair

- Predictive flux driven simulations of core transport in good agreement with experiment: **stiff core heat transport overcomes local gyro-Bohm scaling of TGLF, explaining:**

- Lack of isotope mass dependence of core confinement in L-mode
- Increase of confinement with isotope mass in H-mode, originating in pedestal region

CF Maggi et al., EX/6-1  
CF Maggi et al., Nucl Fusion 2019