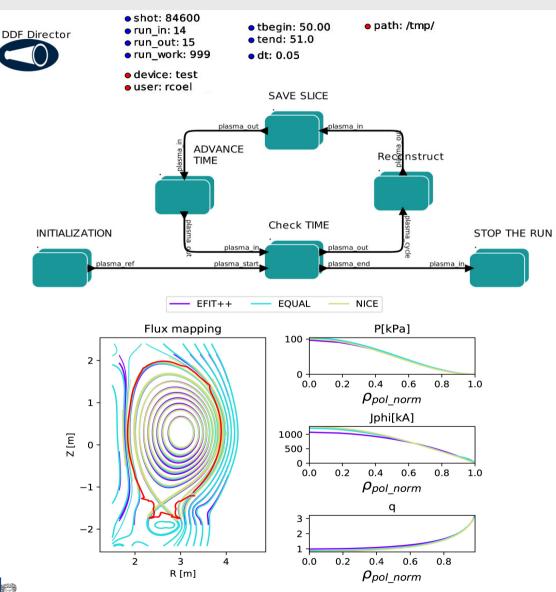# PLASMA EQUILIBRIUM RECONSTRUCTION OF JET DISCHARGES USING THE IMAS MODELLING INFRASTRUCTURE

- Scientific workflow in Kepler was developed for the plasma equilibrium reconstruction on arbitrary Tokamaks using the IMAS modelling infrastructure.

- Easily extendable to other codes and pluggable to other physics workflows, test cased on JET FREIA cluster and EUROfusion Gateway cluster in MARCONI-HPC.

- JET plasma discharges #89140 and #84600 analysed. For the former magnetic sensors measurements + MSE were used whereas the latter used only magnetics and post-validation against IR camera data (LFS strike point position).

- Good agreement among all codes although parameters used were not fine tuned to yield lowest possible deviations of reconstructed to experimental data.