



Laboratorio Nacional Fusión



PRINCETON PLASMA PHYSICS LABORATORY

# Inter-Machine Validation Study of Transport Modelling in S-H Plasmas

A.Dinklage et al., Nucl. Fusion 53 (2013) 063022

## Joint experiments

Documentation of the physics basis towards reactor design

## International S-H Profile Database

Experimental Test of "verified" NC transport codes

C.D. Beidler et al., Nucl. Fusion 51 (2011) 076001

## Complete set of

- Equilibrium (VMEC)
- Kinetic profiles ( $n_e$ ,  $T_e$ ,  $T_i$ )
- $E_r$  measurement (CXS, HIBP)

## Extension of joint activities

## Further tests of transport codes

- Systematic survey with FORTEC-3D
- Pure ECH plasmas DB
- TASK3D-a application
- GK simulations ??

