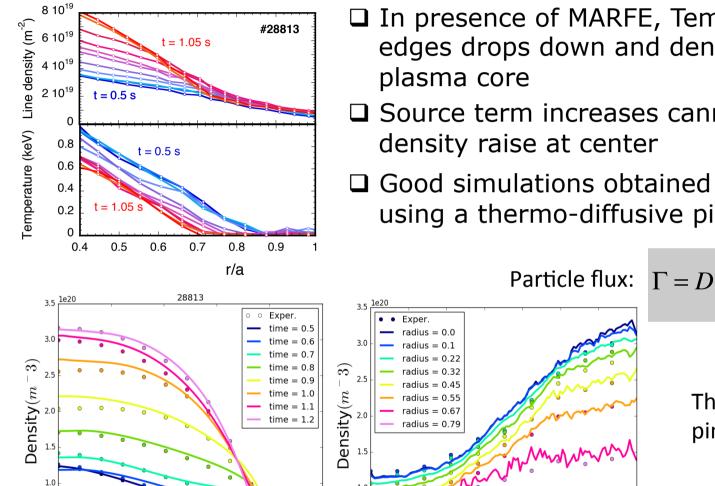
Evidence of thermo-diffusive pinch in particle transport, O. Tudisco et al. (EX/P8-24)



 $n_e \partial I$

 $T_e \partial T_e$



0.5 L 0.0

0.4

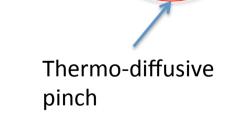
r/a

0.6

0.8

0.2

- □ In presence of MARFE, Temperature at edges drops down and density rises in plasma core
- Source term increases cannot account for density raise at center
- Good simulations obtained for r/a < 0.8using a thermo-diffusive pinch term.



dn

дr

Detailed density profiles from scanning interferometer (about 32 chords, $\Delta r=1$ cm)

0.7

0.8

time (s)

0.9

1.0

1.1

1.2

0.5 **x** 0.5

0.6

1.0