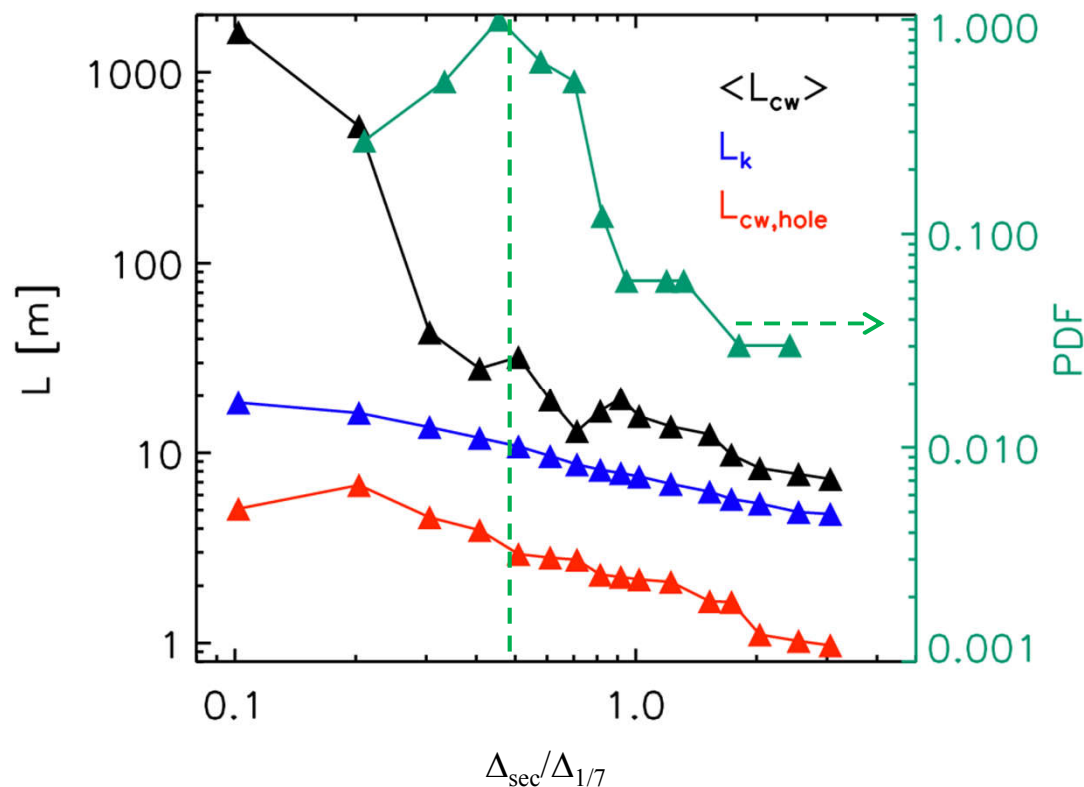


Topological properties of edge helical plasma m/n=1/7 in RFX-mod

Scaling of connecting length to the wall L_{cw} with local secondary mode deformation $\Delta_{sec}/\Delta_{1/7}$:

- $\langle L_{cw} \rangle$ average value along the torus has a threshold at $\Delta_{sec}/\Delta_{1/7} \approx 0.3$
- L_k Kolmogorov length
- $L_{cw,hole}$ value in the locking region



Probability Distribution Function
of electron temperature transport
barriers is centered at $\Delta_{sec}/\Delta_{1/7} \approx 0.5$

Upgrade RFX-mod2 will be
characterized by a decrease of local
deformation of about a factor 2:

a value of $\Delta_{sec}/\Delta_{1/7} \approx 0.2$ could be
reached with an increase of $\langle L_{cw} \rangle$
of one order of magnitude