

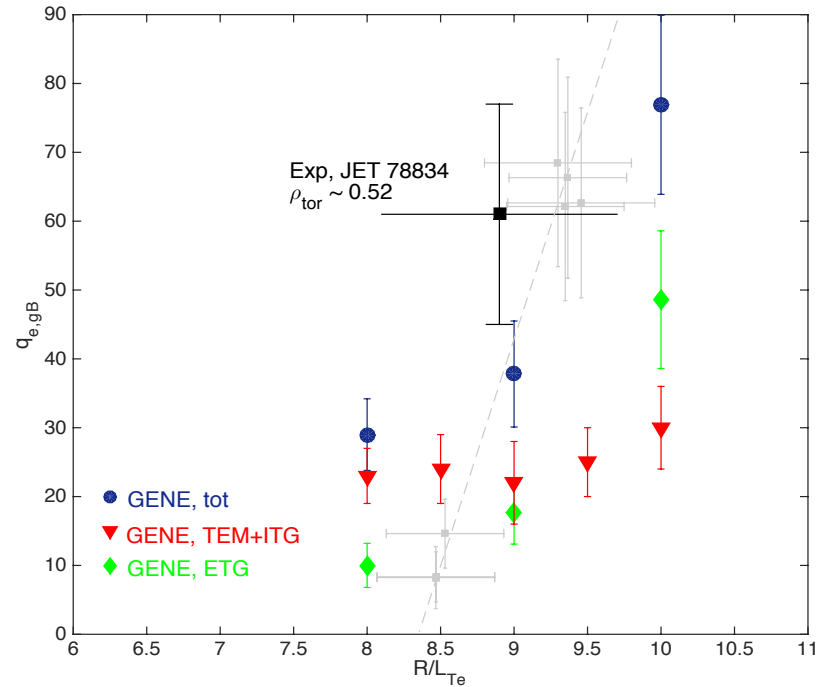
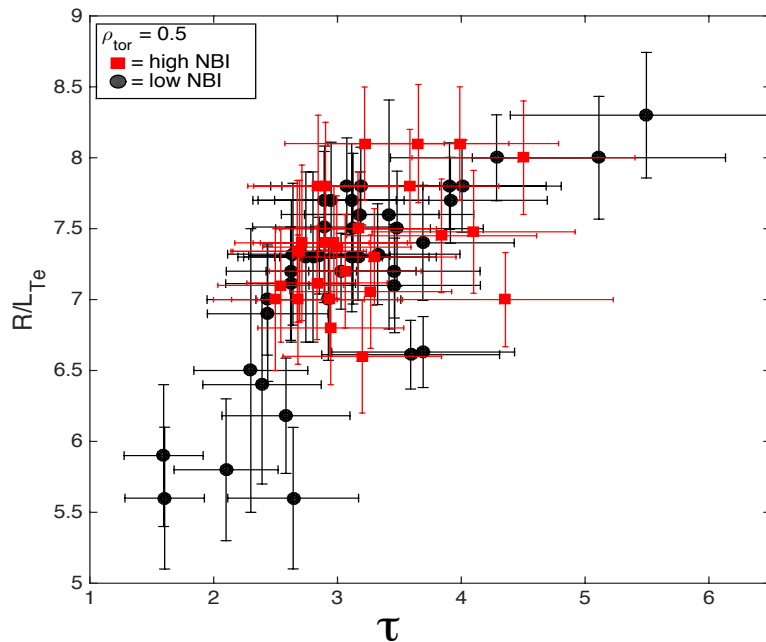
Electron Heat Transport in JET from Ion to Electron scales: Experimental Investigation and Gyro-kinetic Simulations

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Electron temperature peaking on JET is dominated by the value of $\tau = Z_{\text{eff}} T_e / T_i$, which is a key player for ETG instabilities



Non-linear GK simulations indicate that ITG/TEM are not enough to account for the experimental electron heat flux and stiffness. ETGs single scale simulations seem to provide the missing flux.

A massive multi-scale simulation, still ongoing, also gives indications of a non-negligible ETG flux in JET plasmas.



These results are important for ITER which will be dominated by electron heating



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