Summary

- New and unique measurements shed light on inter-ELM thermal transport by drift wave like turbulence
- Evolution of ITG-scale turbulence regulated by ExB shear consistent with $Q_i$ decreasing from being anomalous to closer to neoclassical
- TEM-scale $\bar{n}$ increases at critical $\nabla T_e$ and can be responsible for anomalous $Q_e$ inferred from experiments
- ITG and TEM-scale $\bar{n}$ evolutions are consistent with theoretical predictions of these being ITG and TEM instabilities respectively