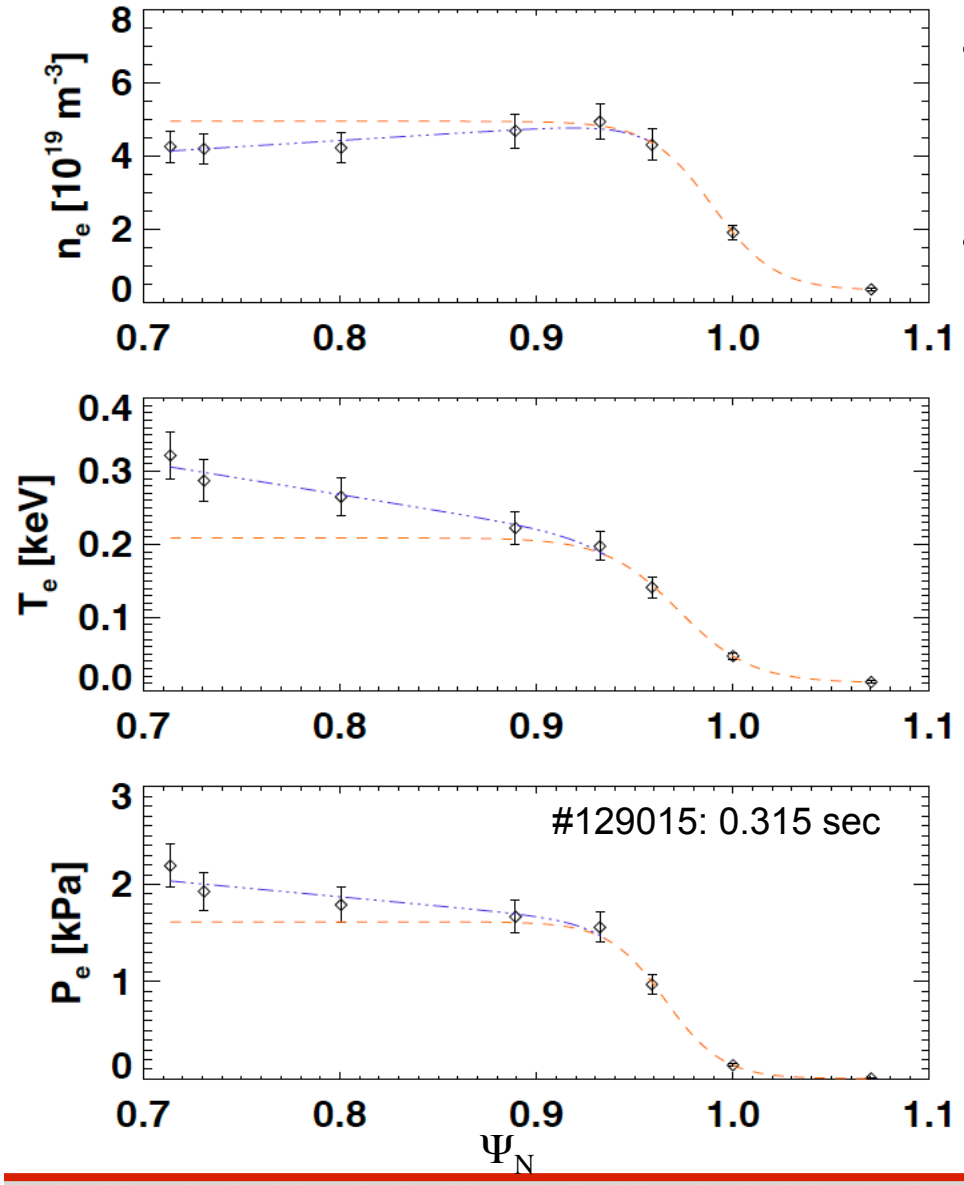
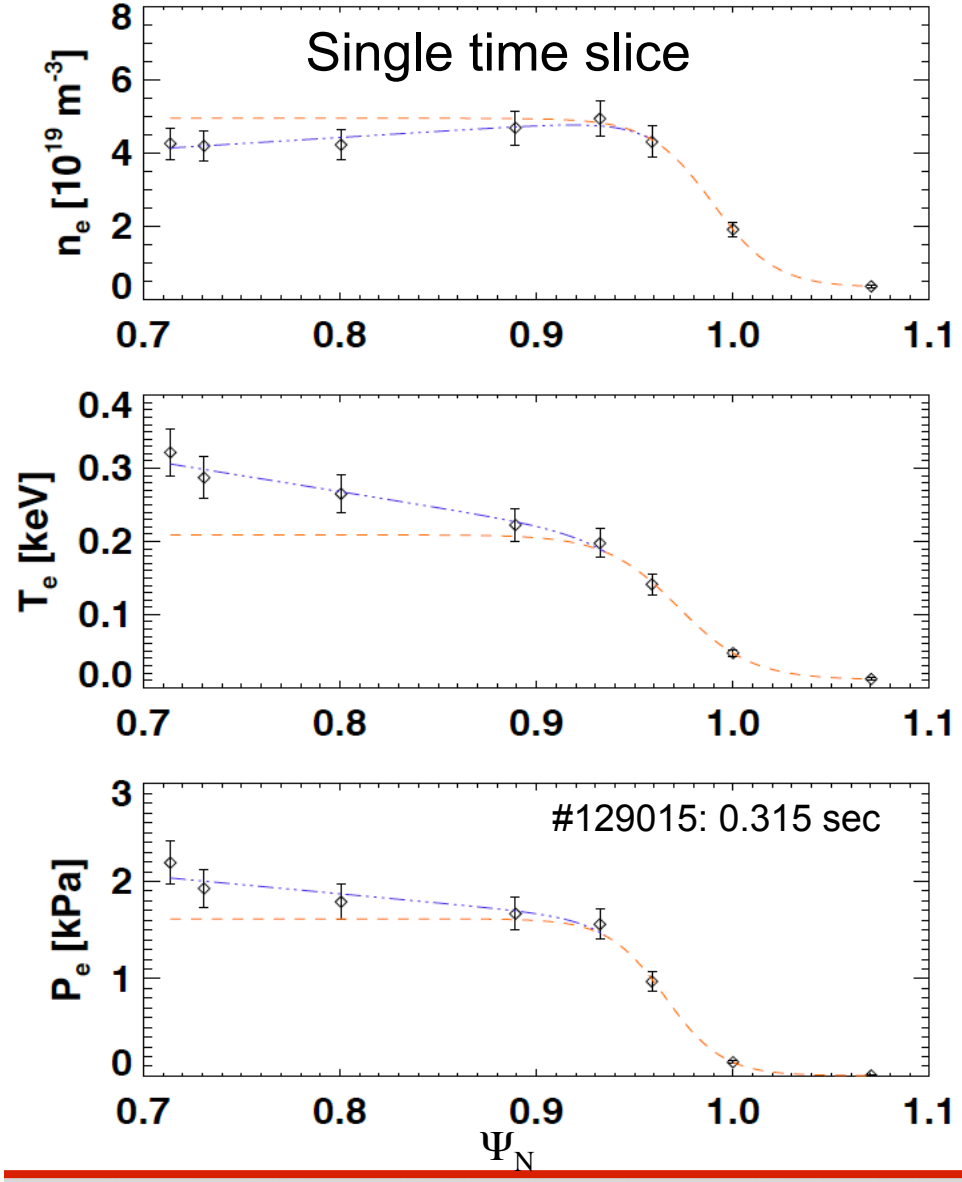
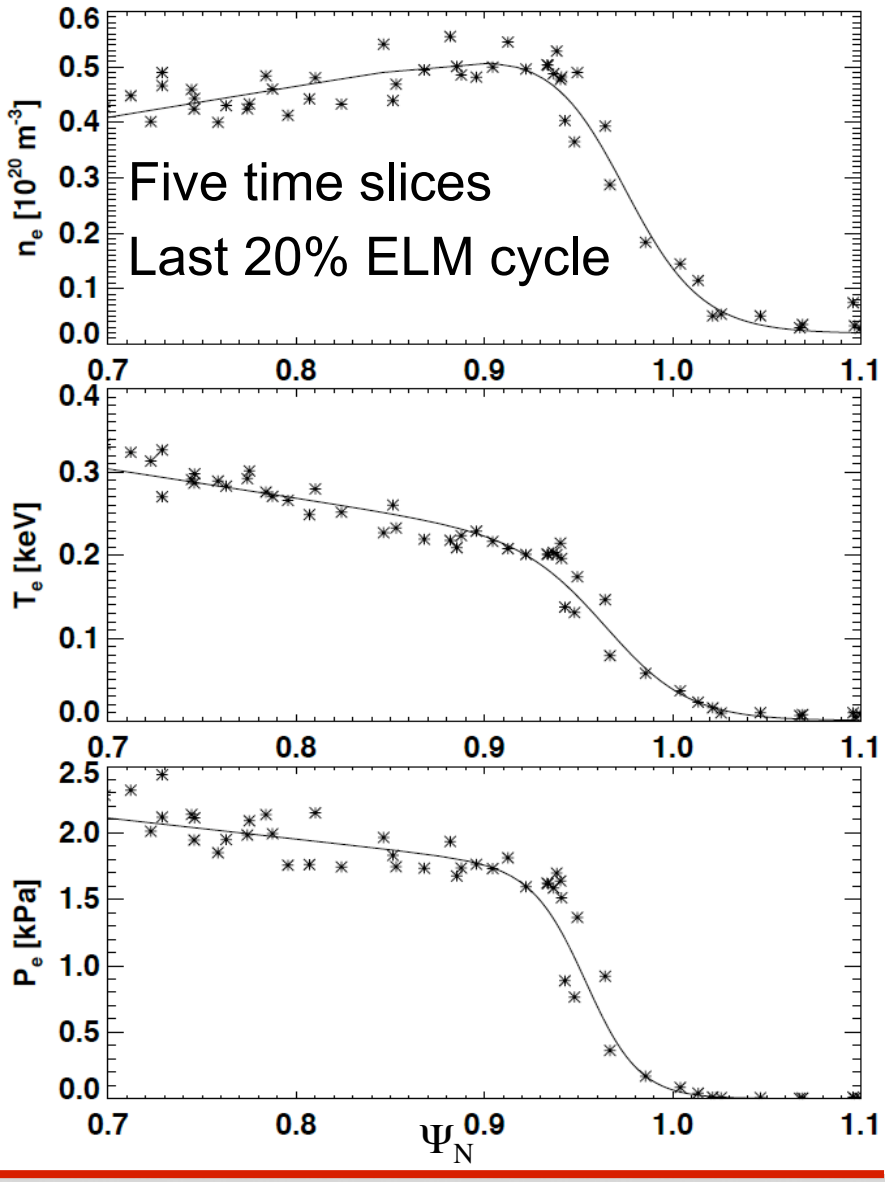
Single time slice pedestal analysis capability marginal



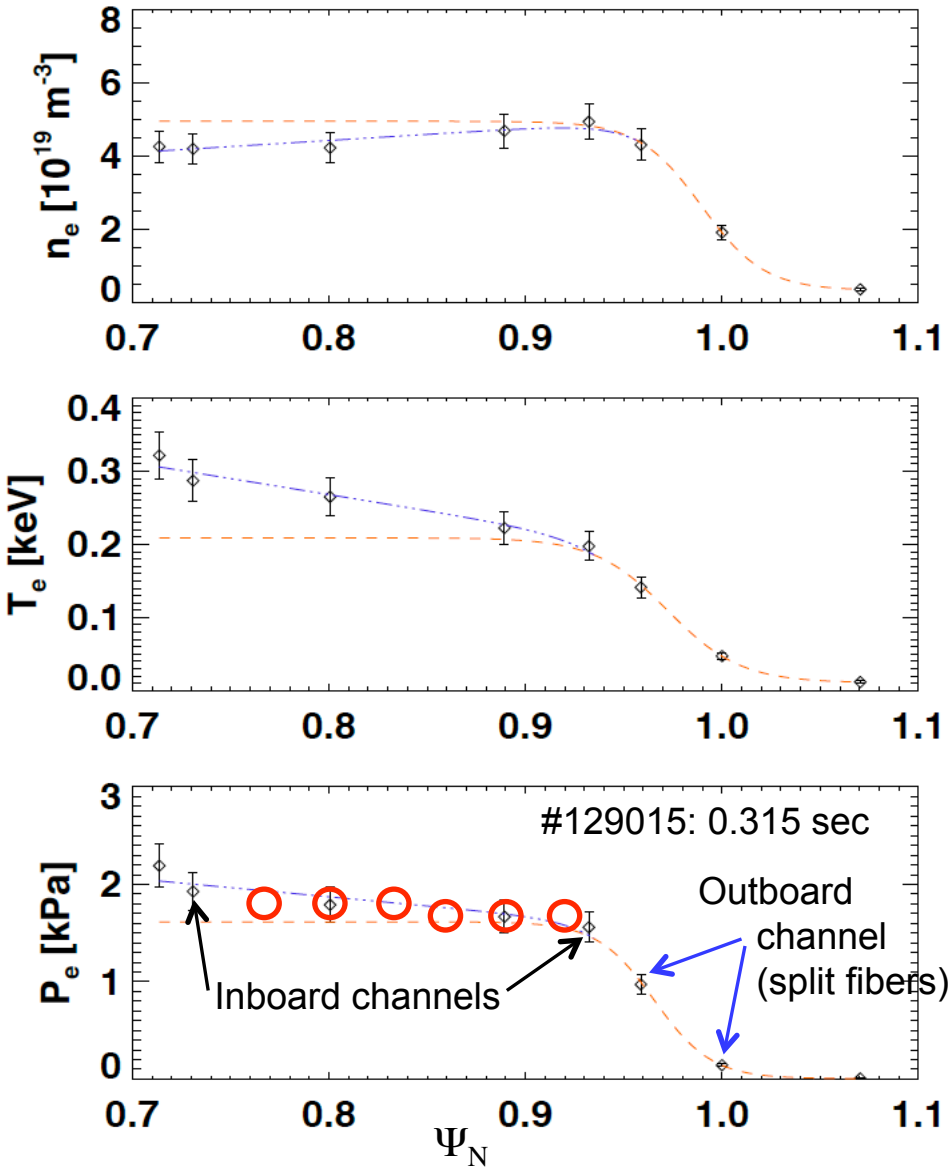
- Pedestal top marginally resolved
- Pedestal gradients unresolved

Multiple time slices allow improved assessment of pedestal, assuming pedestal stays constant over many shots/times





More Thomson channels needed in edge to improve quality of pedestal characterization and edge stability analysis



- Existing profile/stability analysis based on multiple time slice combination
- 3-way fiber splitting being evaluated (6 mm separation)
  - Would yield enhanced spatial resolution approximately as shown by circles in P_e plot
  - Larger outer gap would be needed to use those channels
- Additional channels needed for improved SOL characterization and ITB characterization in reversed shear discharges