## Upgraded reflectometer array will investigate CAE role in enhanced electron transport

- Enhanced thermal electron transport observed to correlate with GAE activity
  - D. Stutman et al PRL 102, 115002 (2009); K. Tritz Invited Talk APS DPP 2010
- Recent measurements with 16 channel reflectometer array show CAEs must also be considered

[Crocker et al, PPCF **53** 105001(2011)]

- frequencies similar to GAEs can modify electron orbits like GAEs
- CAEs strongly core localized, where transport enhanced
- Upgrade will add 8 channels to array, ਤੁੰ
  - - Current Array: 16 channels, 30 75 GHz
    - Increases accessible density to  $n_0 > \sim 10^{14} \text{ m}^{-3}$
    - Increases number of channels to 24

