

# RF diagnostics

- ORNL Edge Profile Reflectometer
  - Operational – same performance as in previous years
    - \* Can run in sweep mode (density profile) or dwell mode (PDI spectra)
  - Limited to 210 ms window on “slow” acquisition system
  - At least 500 ms on “fast” acquisition system
    - \* Need to make sure that timing for 500ms window is independent of timing for 210ms window
- Fast Digitizer
  - 100MHz digitizer will acquire data from reflectometer and from :
    - One of four Langmuir probes @ Bay D (floating mode)
    - Two new B-dot RF (electromagnetic) probes – Bay J ?
    - New Langmuir (electrostatic) probe – Bay J ?

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- Visible light Camera
  - Dedicated to viewing RF antenna (covers ~8-9 straps)
  - Filter available to measure IR spectrum on demand ( $> \sim 300^{\circ}\text{C}$  ?)
- Fast IR Camera (divertor)
- ERD
  - Operational as in previous years