

# Synoptic Displays for PXIE

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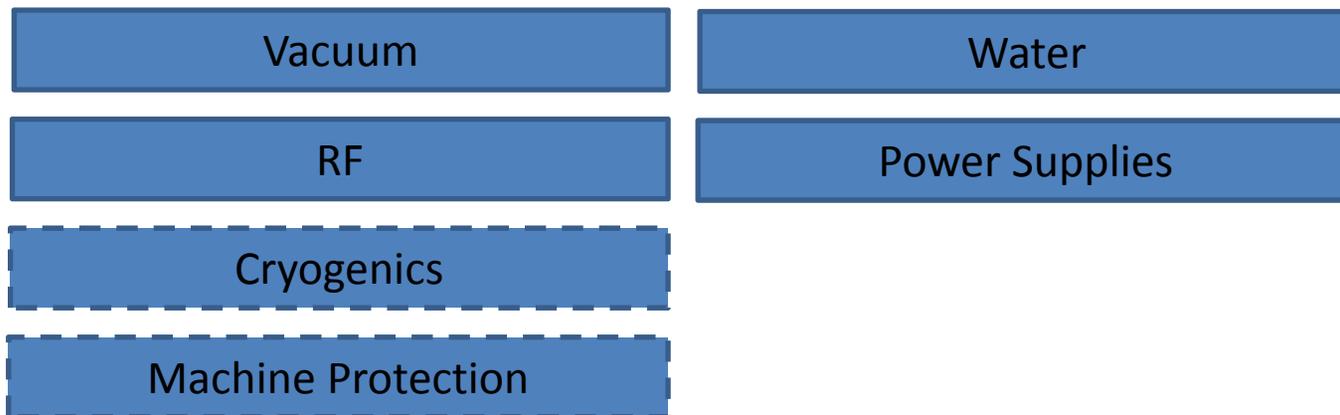
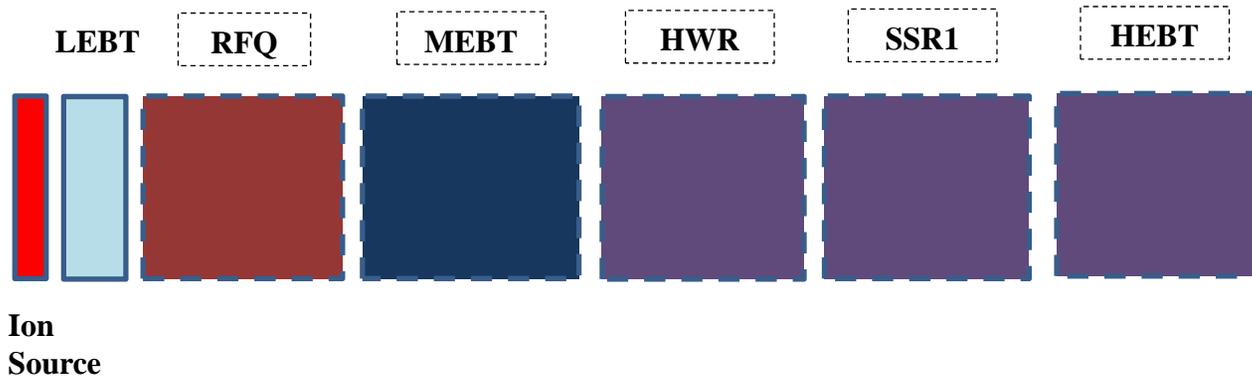
# Motivation for Different Interface

- Need an interface that allows system experts that are infrequent machine operators to quickly diagnose problems and set up machine studies.
  - Difficult to memorize ACNET parameter names.
  - Parameter page navigation is not intuitive to a novice and organization is not regulated.
- This will not be a replacement for parameter pages, just a second interface.

# Advantages of Synoptic Interface

- Compatible with ACNET protocol.
- Allows physical representation of parameters.
- Plots can be embedded in window and quick access to datalogger plots.
- ACNET parameter names easily accessible.

# Top Level Layout Example



# Maintenance Requirements

- Synoptic displays lose their effectiveness quickly when they are not up to date.
- Changes in beam line I/O must be reflected in Synoptic pages.
- This may be the greatest disadvantage of Synoptic interface vs. parameter page interface.
- Controls department will help getting us started, but I assume PIP-II department will be responsible for long term maintenance.