

LBT Factoids

- Azimuth cable wrap
 - Velocity = $1.3^{\circ}/s$ (maximum $1.5^{\circ}/s$)
 - Acceleration = $0.3^{\circ}/s^2$
 - ➔ 360° change in 281 seconds

- Rotator Cable Wrap
 - Velocity = $5^{\circ}/s$
 - ➔ 360° change in 72 seconds

Instrument Configuration Information for TCS

Michele De La Peña and Titus Purdin

Rationale

- The following slides contain a preliminary list of items needed by the PCS from each instrument and/or detector for proper functioning of the system.
- While a majority of the items will remain static over the lifetime of the instrument/detector, it is recognized some of the items may need to be updated dynamically to accommodate properly the current observation.

Rationale

- The details of how both the static and dynamic items need to be provided to the TCS are being worked out.
 - An Interchange Control Document (ICD) will be prepared which provides the details of how to provide the information to the TCS.

Instrument Configuration Information

- **PLATE SCALE** → The instrument scale is needed to support source positioning and offsetting in detector coordinates (pixels).
 - This is one of the values anticipated to be “dynamic” based upon the actual instrument detector in use at any instant.
- **DETECTOR CENTER**

Configuration Information

- ROTATOR CENTER
- HOTSPOT → Nominally the center of the detector and coincident with the rotator center.
 - This one of the values anticipated to be “dynamic” based upon the goal of the specific observation.
- DETECTOR FOCAL PLANE ROTATION → Fixed instrumental offset between where the rotator thinks N is up on the detector and where the detector is accurately aligned to N up.

Configuration Information

- TIP and TILT of the Instrument Focal Plane with respect to the Telescope Focal Plane