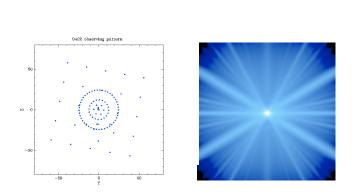
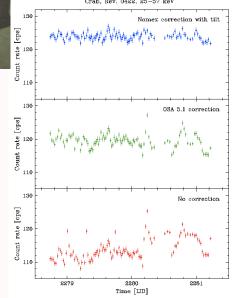
IBIS/ISGRI geometric calibration

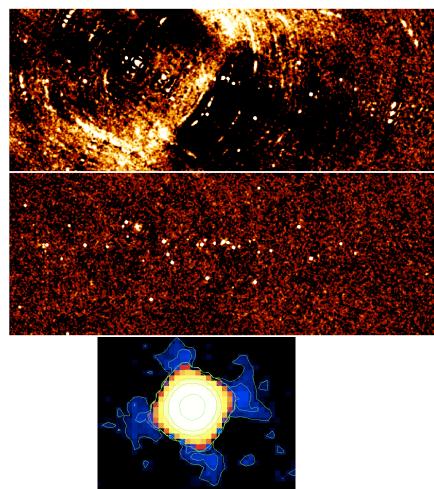
- Detector and mask alignment vs star tracker + thermal deformations
 Current systematics: I4"
- Nomex geometrical model. Current systematics on flux measurement: 1-2%

• Image defects related to insufficient instrument modeling. Systematic error on the PSF: 1% limits usable exposure to 2Msec in the vicinity of bright sources

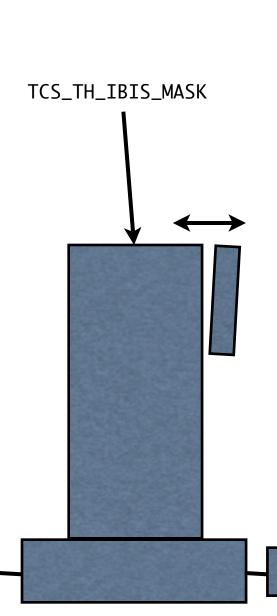


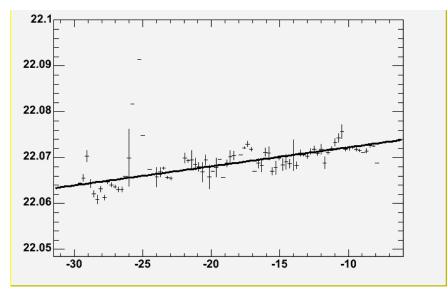






Thermal effect on misalignment





Data looked at:

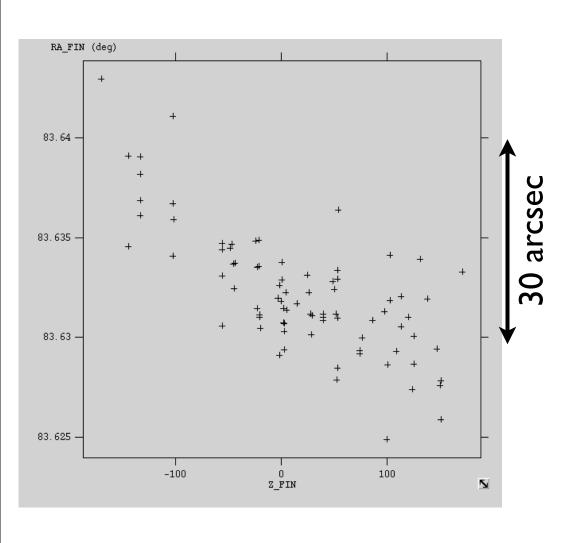
- Crab all data and specific revolutions
- Cyg X-1

Deviations 20-30 arcsec

- → Rotation around Z axis
- \rightarrow arcsin (1.08E-5-2.57E-6*T-1.87E-7*T*T) T=TCS_TH_IBIS_MASK

Typical uncertainty: 15 arcsec with short exposure

There are probably other effects at that level of accuracy



A set of Crab observations with longer exposure (to obtain 5 arcsec position) could be usefull to improve our understanding