

# Crab calibration update

Kristin K. Madsen

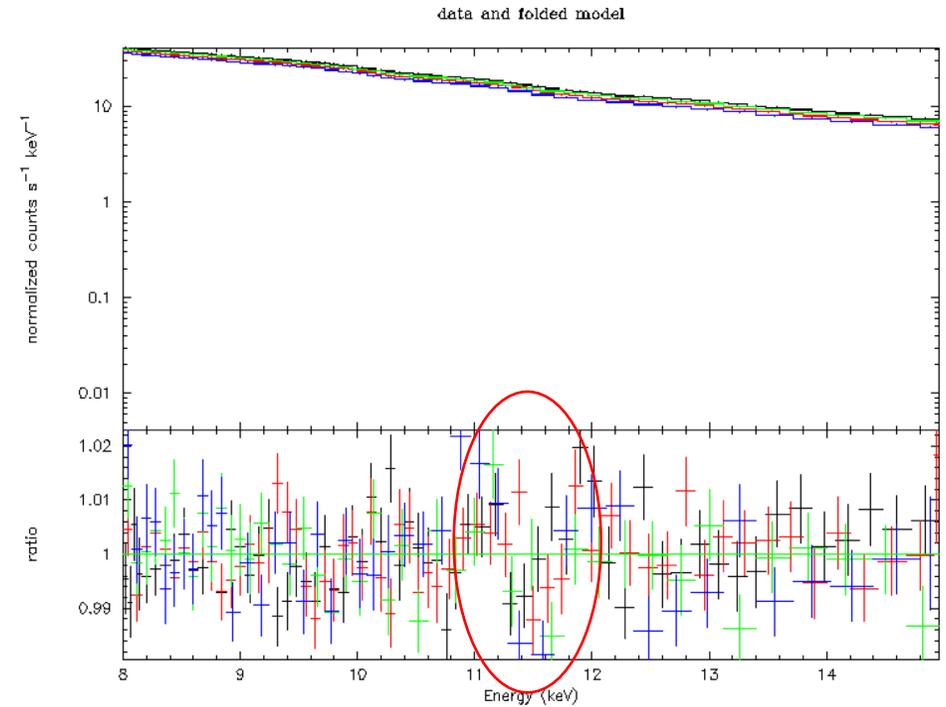
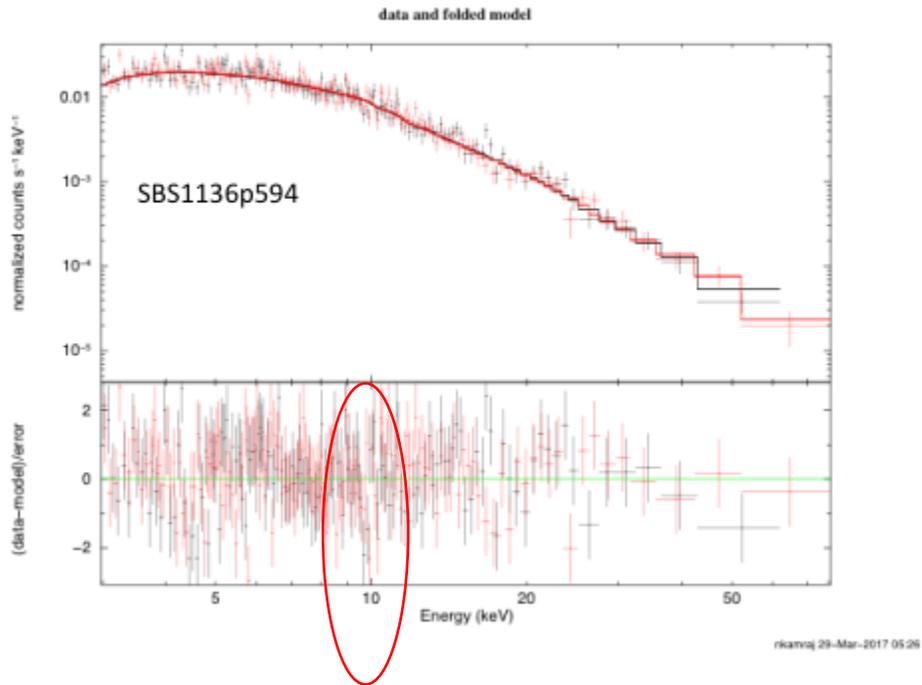
CALTECH

# Crab campaign

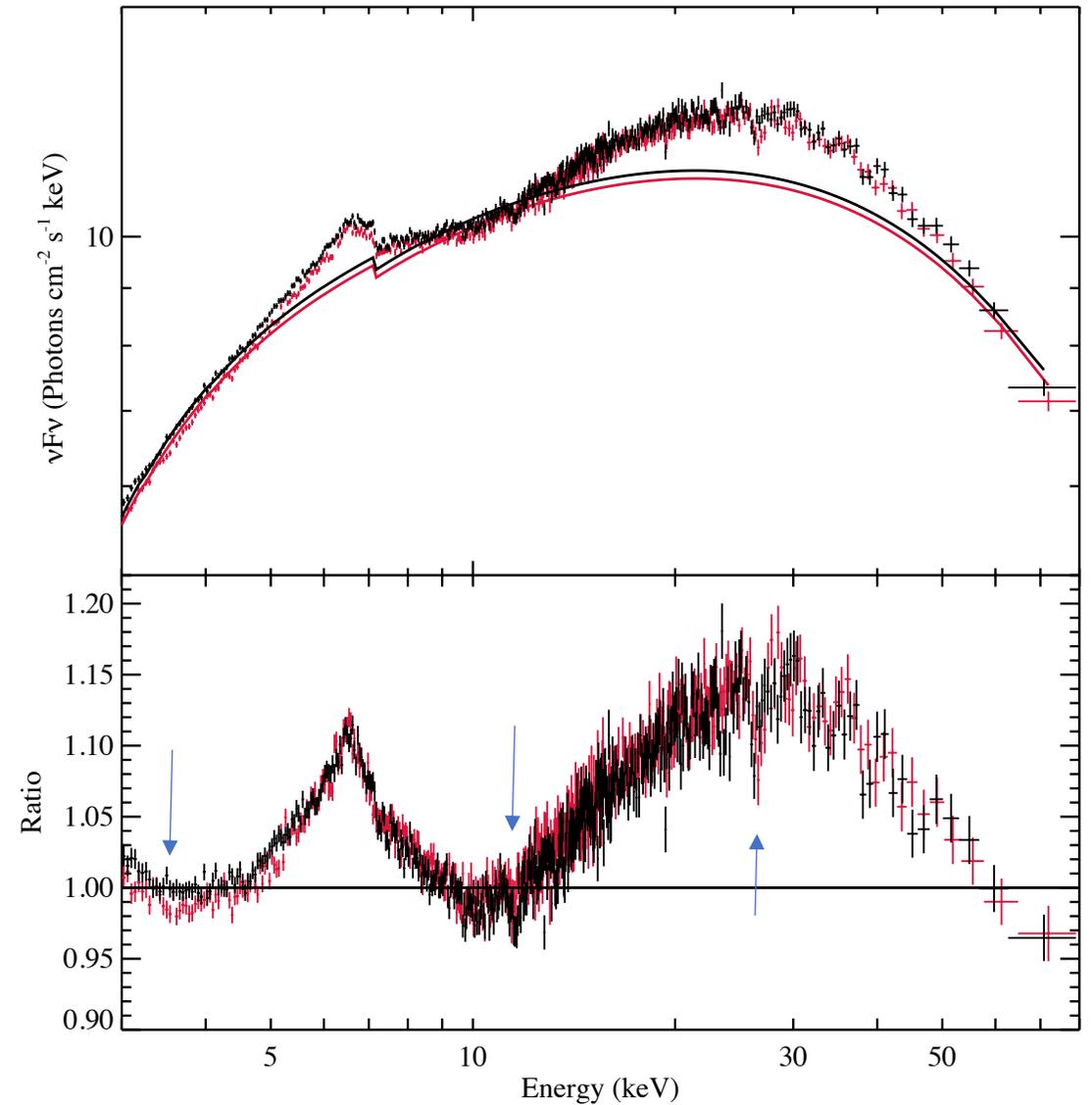
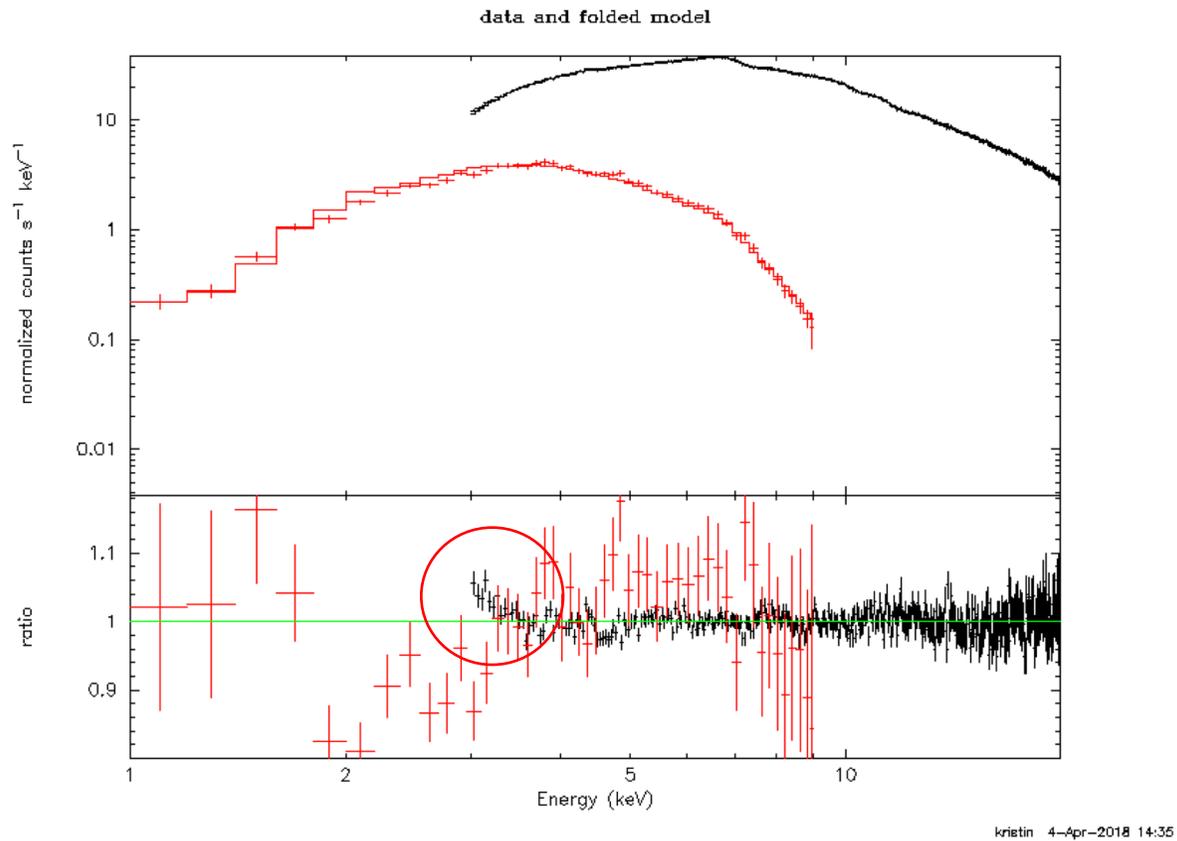
## Purpose

- 1) Scientific: Provide a monitoring campaign of the Crab complementary to GBM and BAT, which are snapshots with 2% flux measurements and accurate slope measurement, coordination with other observatories
- 2) Calibration: Collecting more Crab spectrum at various off-axis angles, measure the detector absorption parameters, absolute normalization

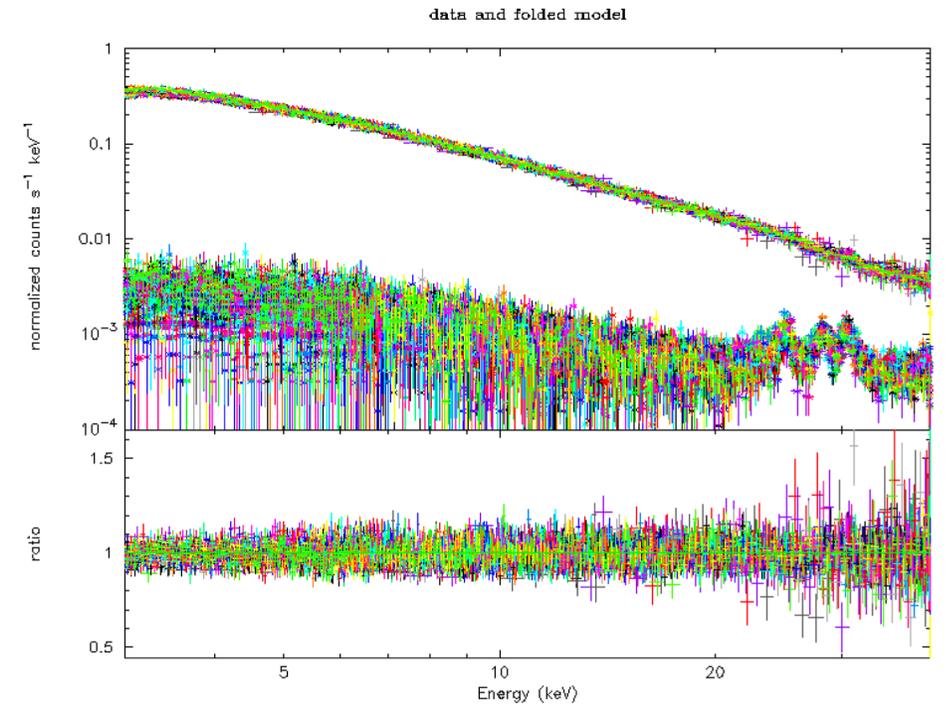
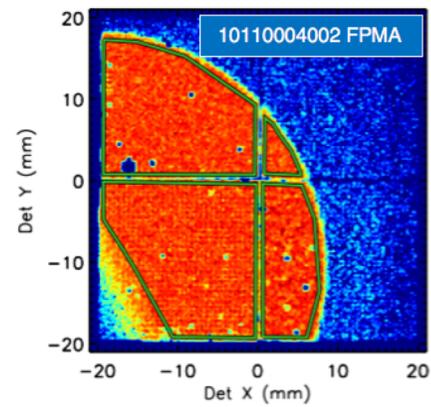
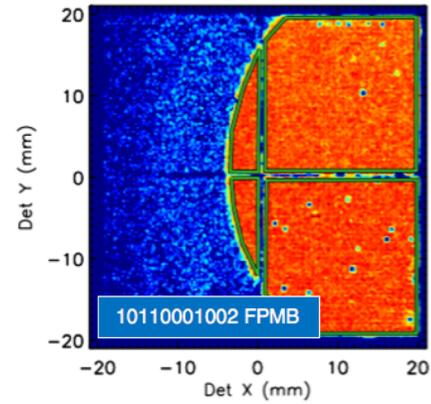
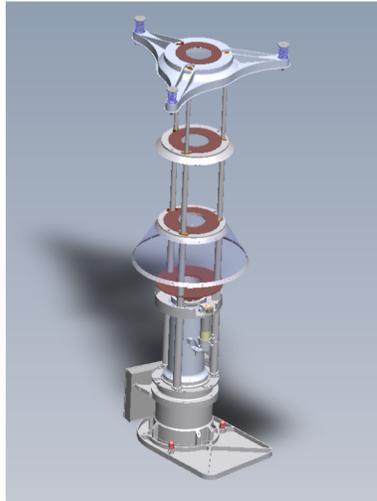
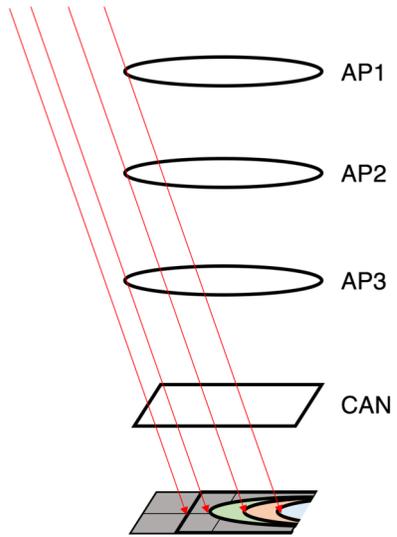
# Obsession with residual 'features'



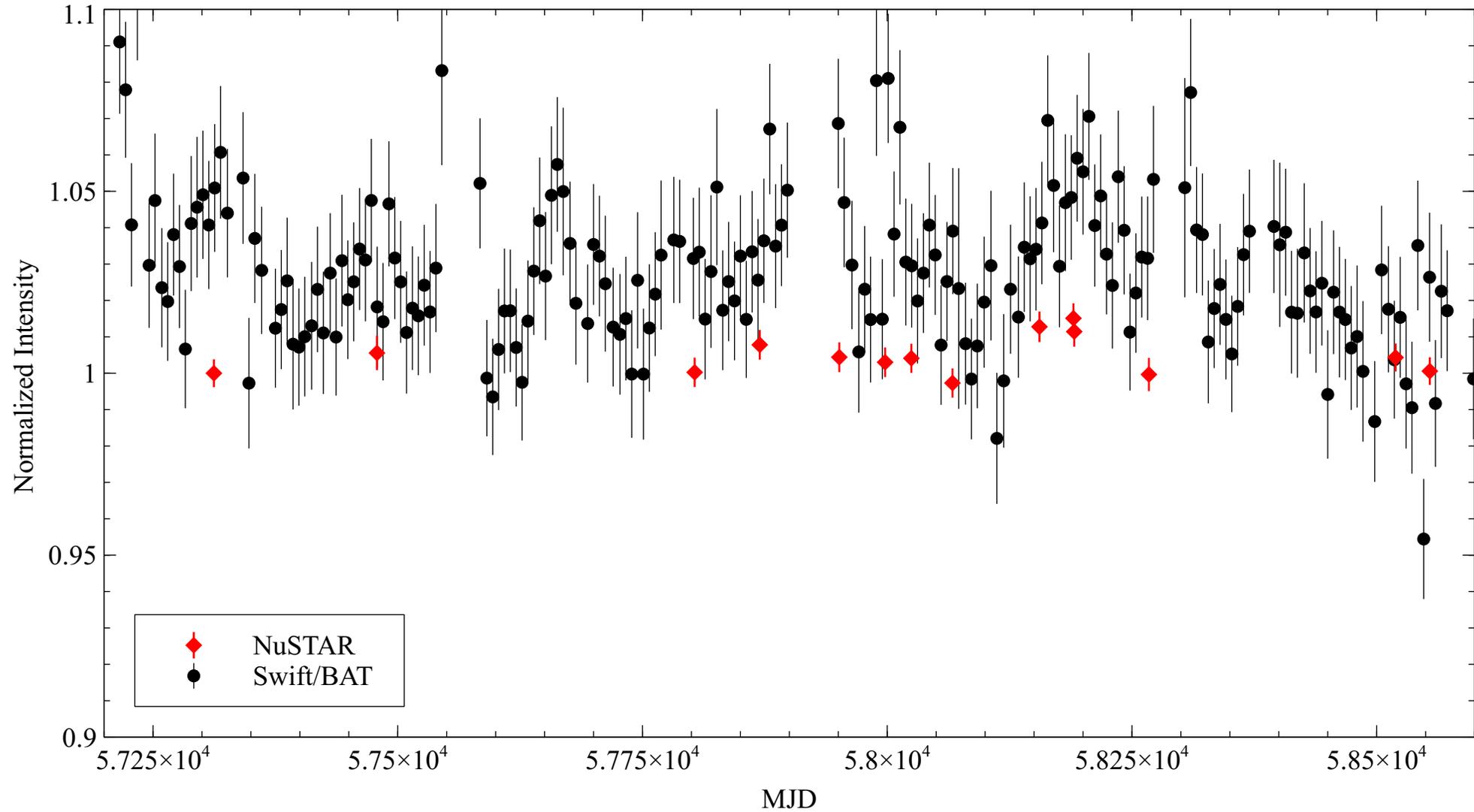
# Obsession with residual 'features'



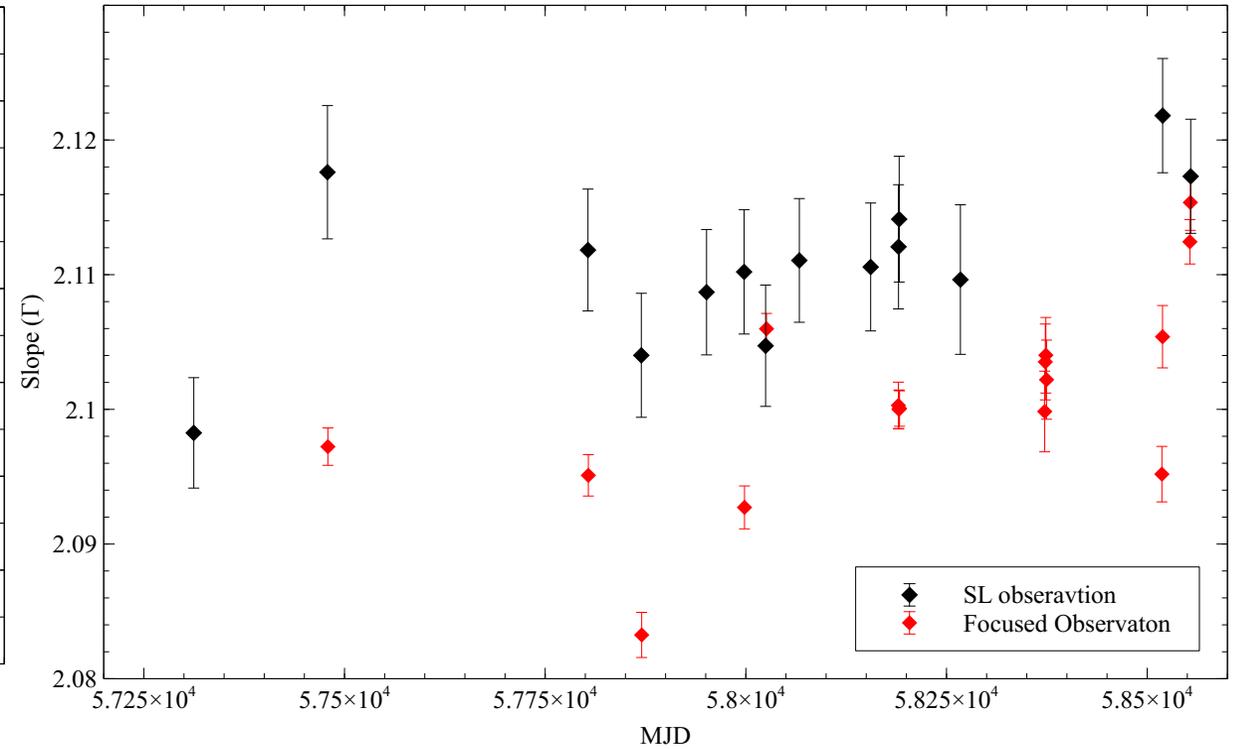
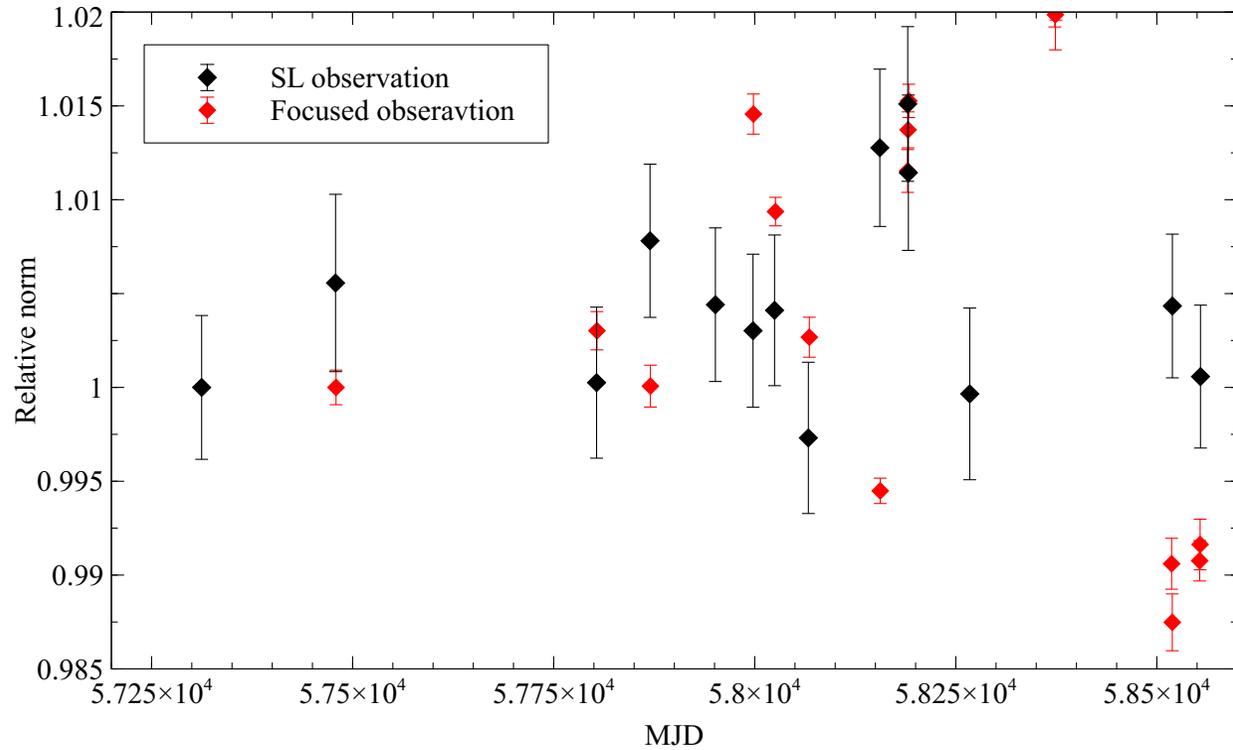
# Stray Light



# SL observations



# SL v. Focused



Important: Differences are expected, primarily we calibrated the ARF against a Crab  $\Gamma=2.1$ , and this is why we are redoing the focused calibration.

# Detector absorption parameters

The detector absorption parameters (Pt and CZT thickness) are assumed constant for all epochs.

