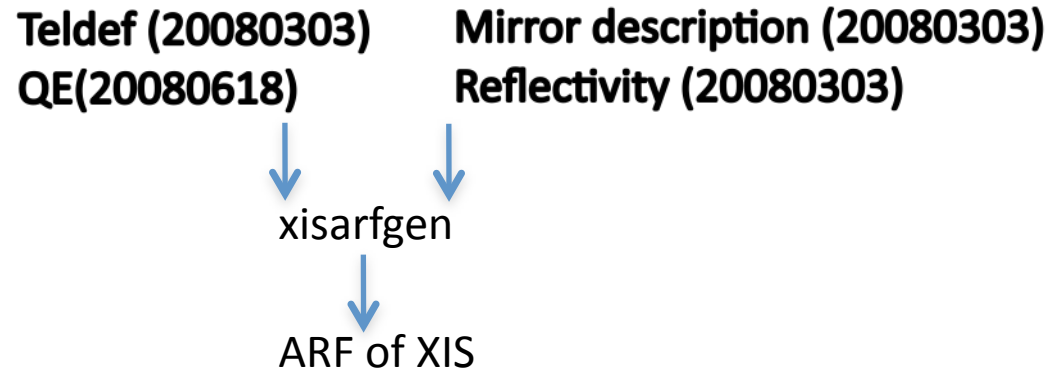# Status of XRT calibration

Manabu ISHIDA, Yoshitomo MAEDA
ISAS/JAXA

Software and calibration status

August, 2008 CALDB updates: XRT related

Teldef (20080303)   **Mirror description (20080303)**
QE(20080618)   **Reflectivity (20080303)**

xisarfgen

ARF of XIS

Updated calibration info can be found at

I. Images: JX-ISAS-SUZAKU-MEMO-2008-04.pdf
Main improvements: PSF tail/shoulders
II. Vignetting: JX-ISAS-SUZAKU-MEMO-2008-05.pdf
Main improvements: optical axis
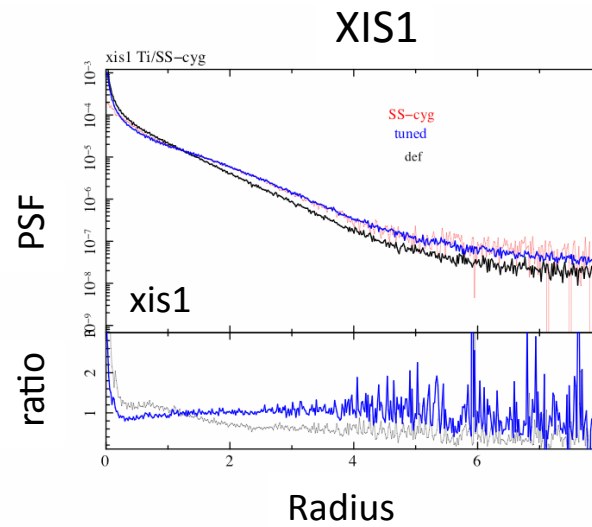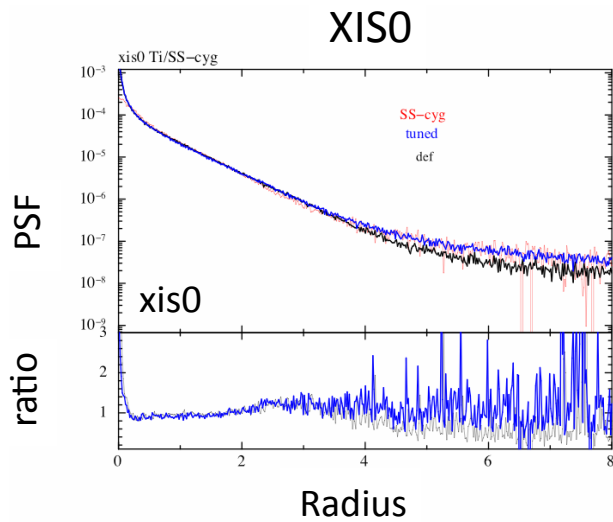III. EA: JX-ISAS-SUZAKU-MEMO-2008-06.pdf
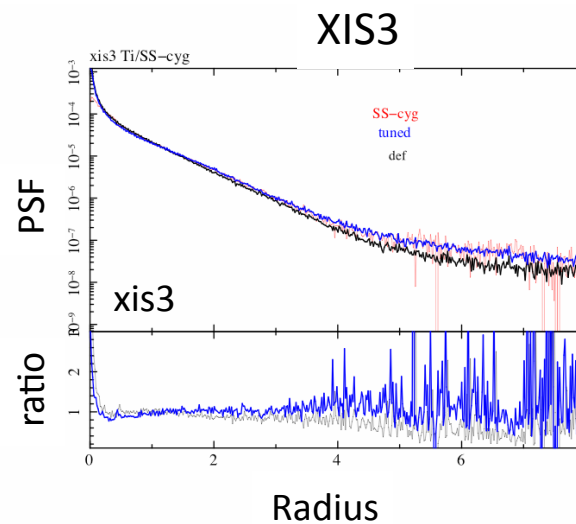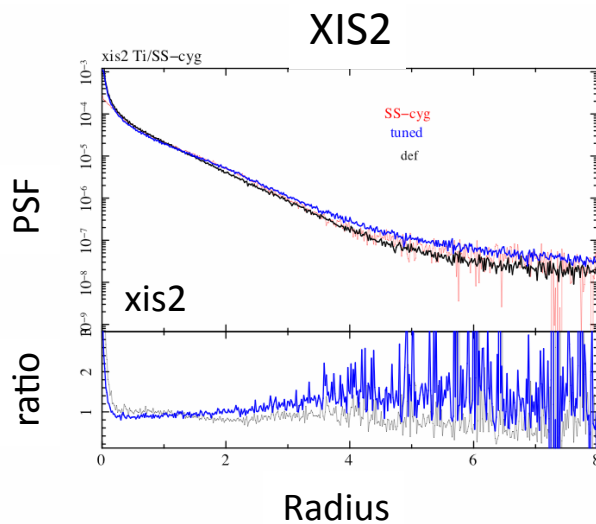Main improvements: flux at HXD nominal

PSF

XIS0

XIS1

1.5'~4'
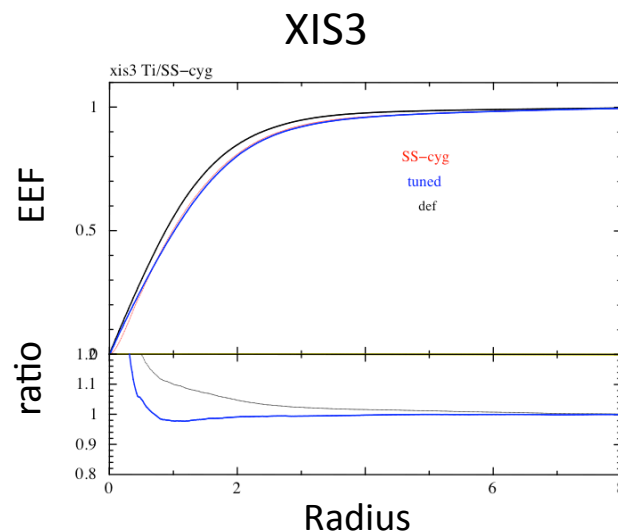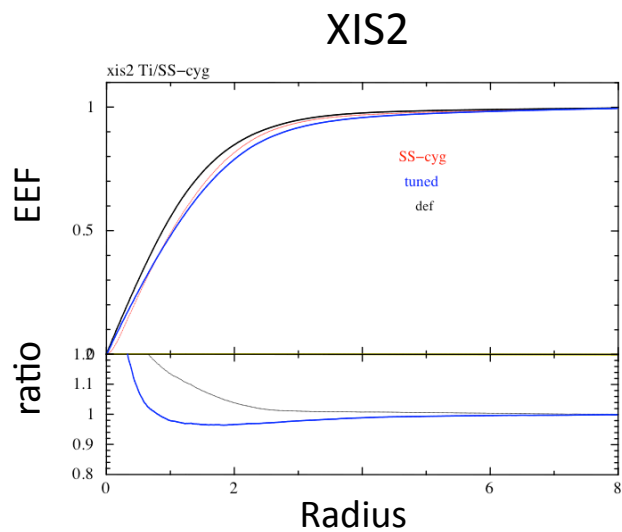Focal length tuned
4'~
Reflection profile tuned

XIS2

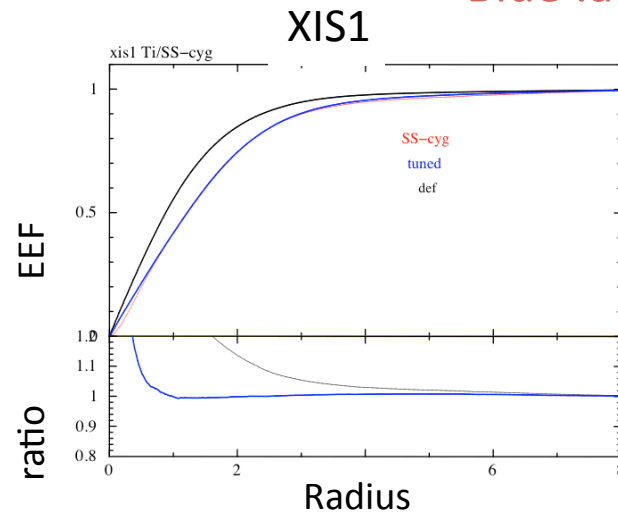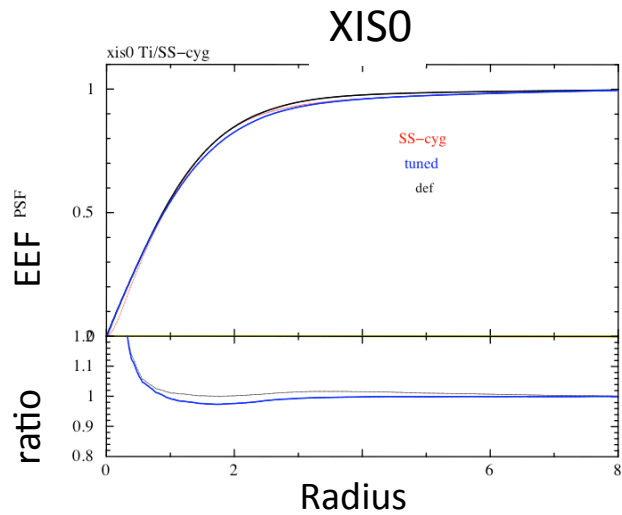### XIS3

The modeling of the PSF from 0.5 to 8 arcmin is largely improved.

EEF

XIS0

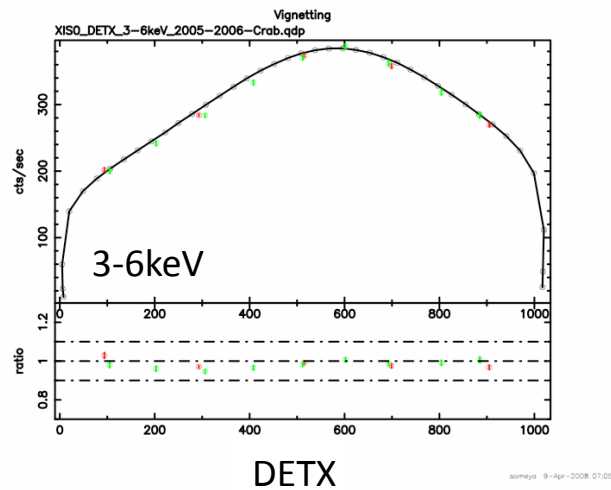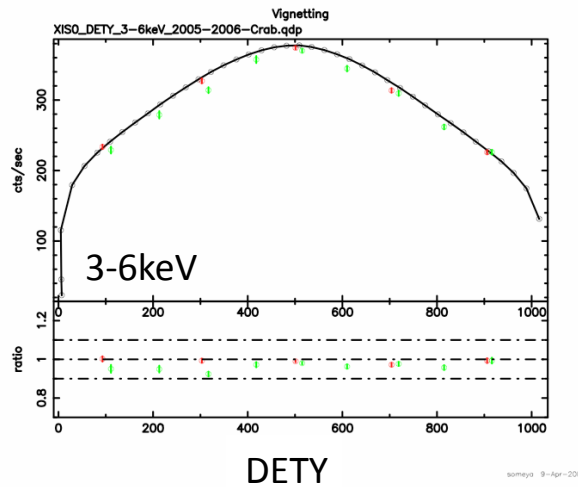xis0 Ti/SS-cyg

SS-cyg
tuned
def

EEF PSF

ratio

Radius

XIS1

xis1 Ti/SS-cyg

SS-cyg
tuned
def

EEF

ratio

Radius

XIS2

xis2 Ti/SS-cyg

SS-cyg
tuned
def

EEF

ratio

Radius

XIS3

xis3 Ti/SS-cyg

SS-cyg
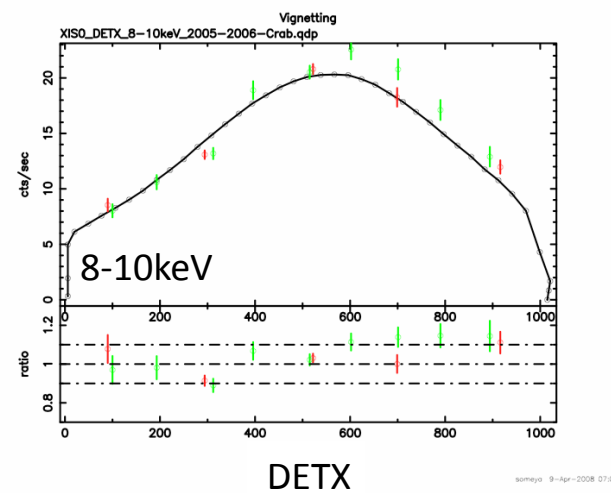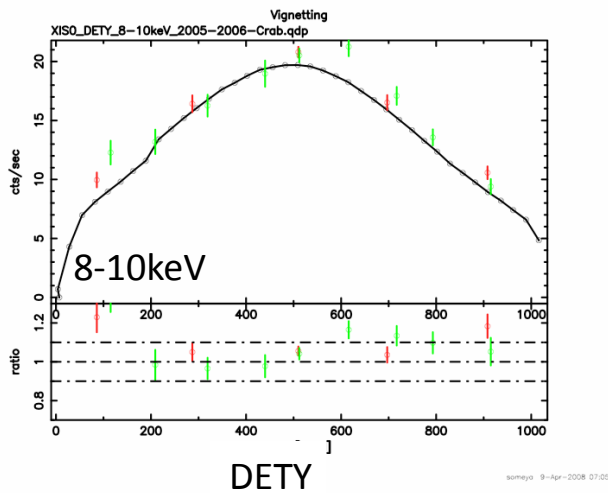tuned
def

EEF

ratio

Radius

Integration radius as small as ~1arcmin is now possible.

Vignetting xis0

Black:tuned xissim
Red:2005 Crab
Green:2006 Crab

The normalization at any off-axis is now modeled with the accuracy of ~ 10% in the 3—6 keV band.