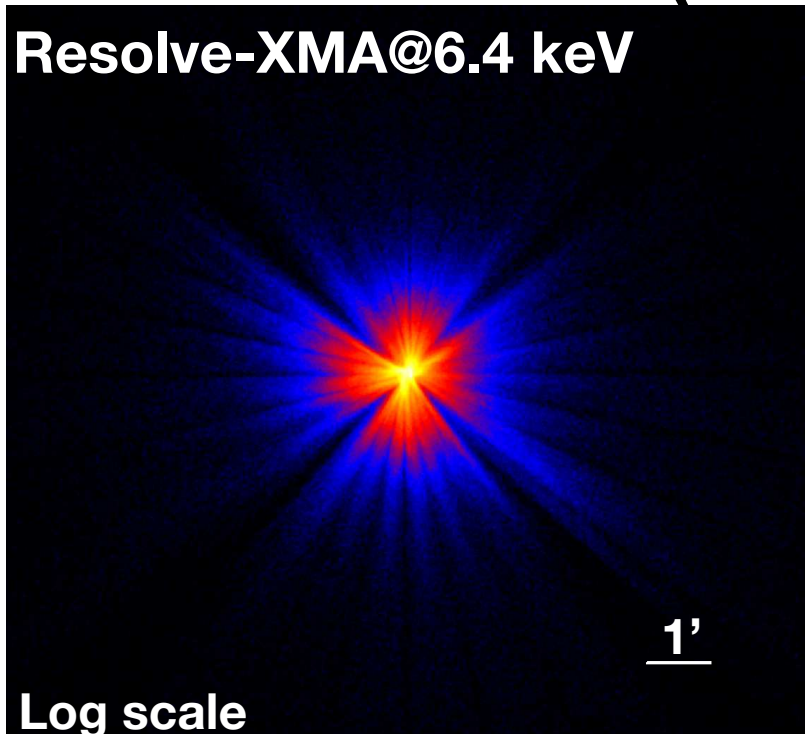


X-ray Mirror Assembly (XMA)



Takayuki Hayashi, Takashi Okajima,
Rozenn Boissay-Malaquin, Keisuke Tamura

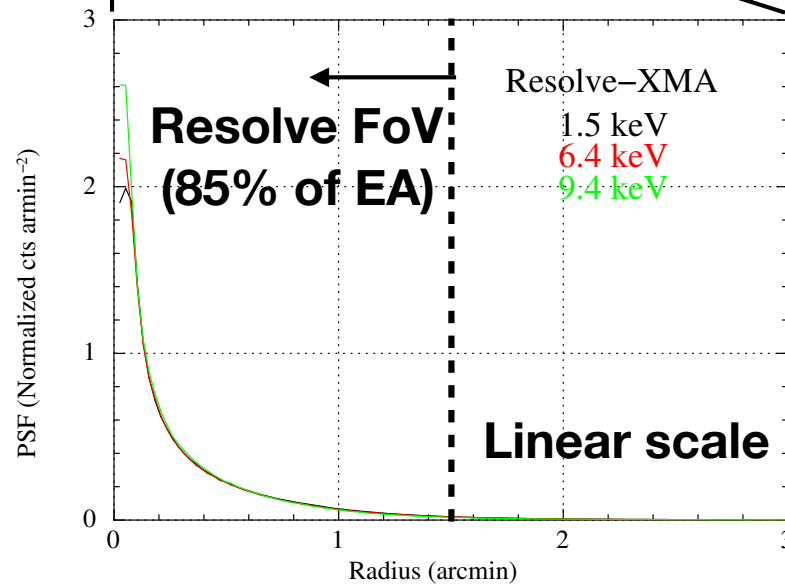
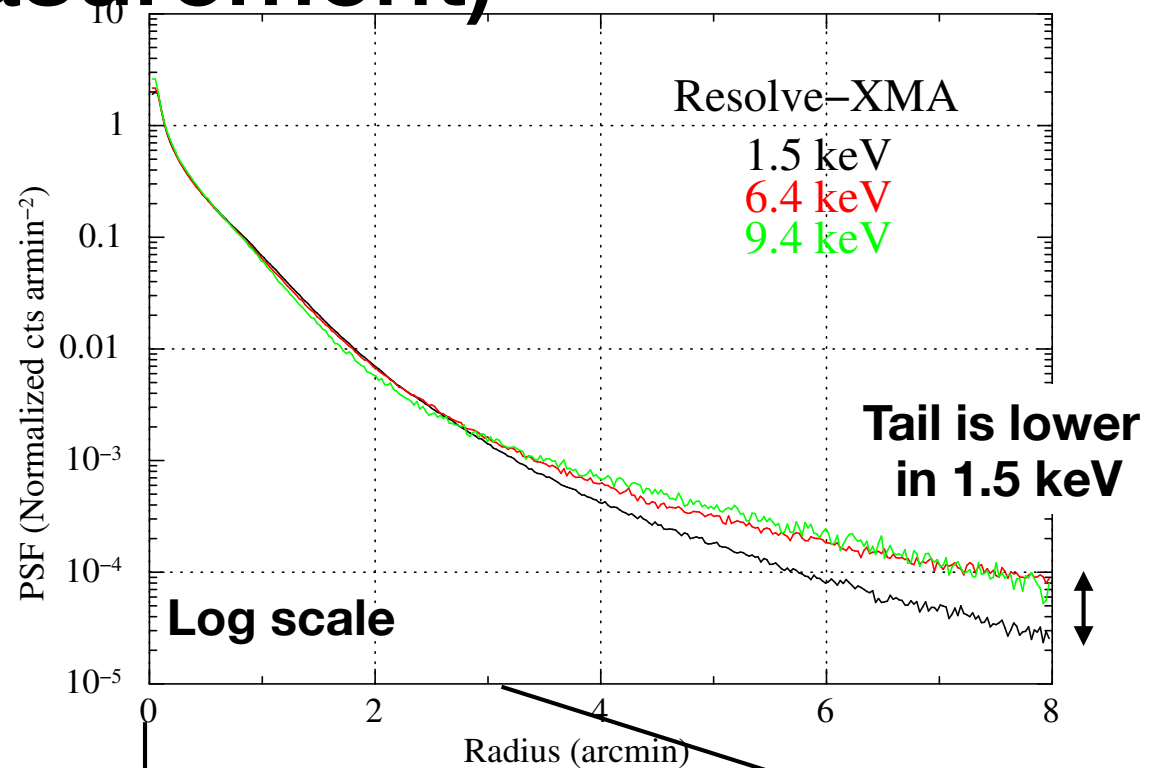
On-axis XMA PSF (Measurement)



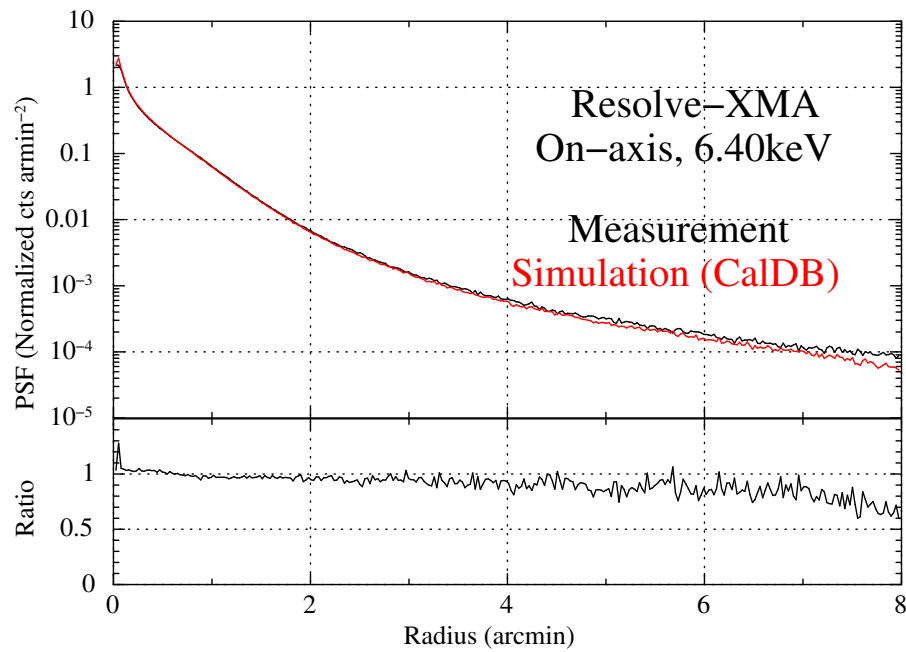
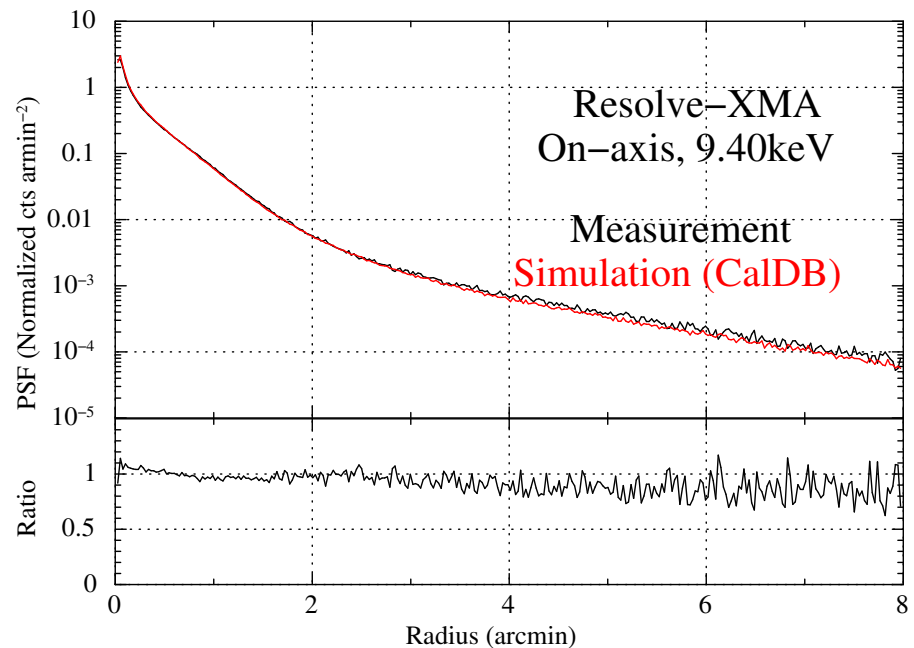
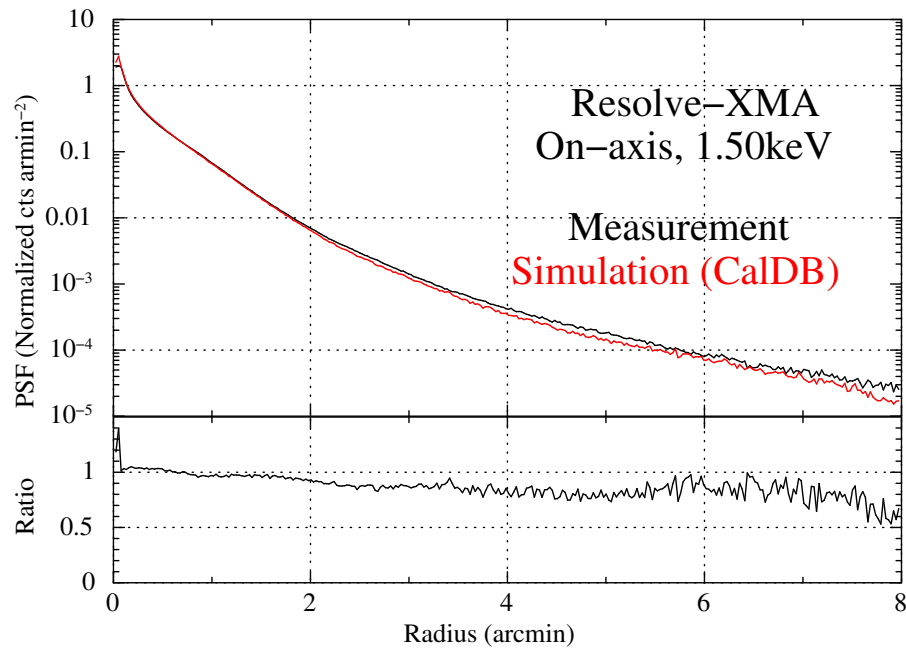
- HPD@6.4 keV
Resolve-XMA: 1.30'
Xtend-XMA: 1.47'

- FWHM@6.4 keV
Resolve-XMA: 7.9"
Xtend-XMA: 7.2"

→ Sharp core!

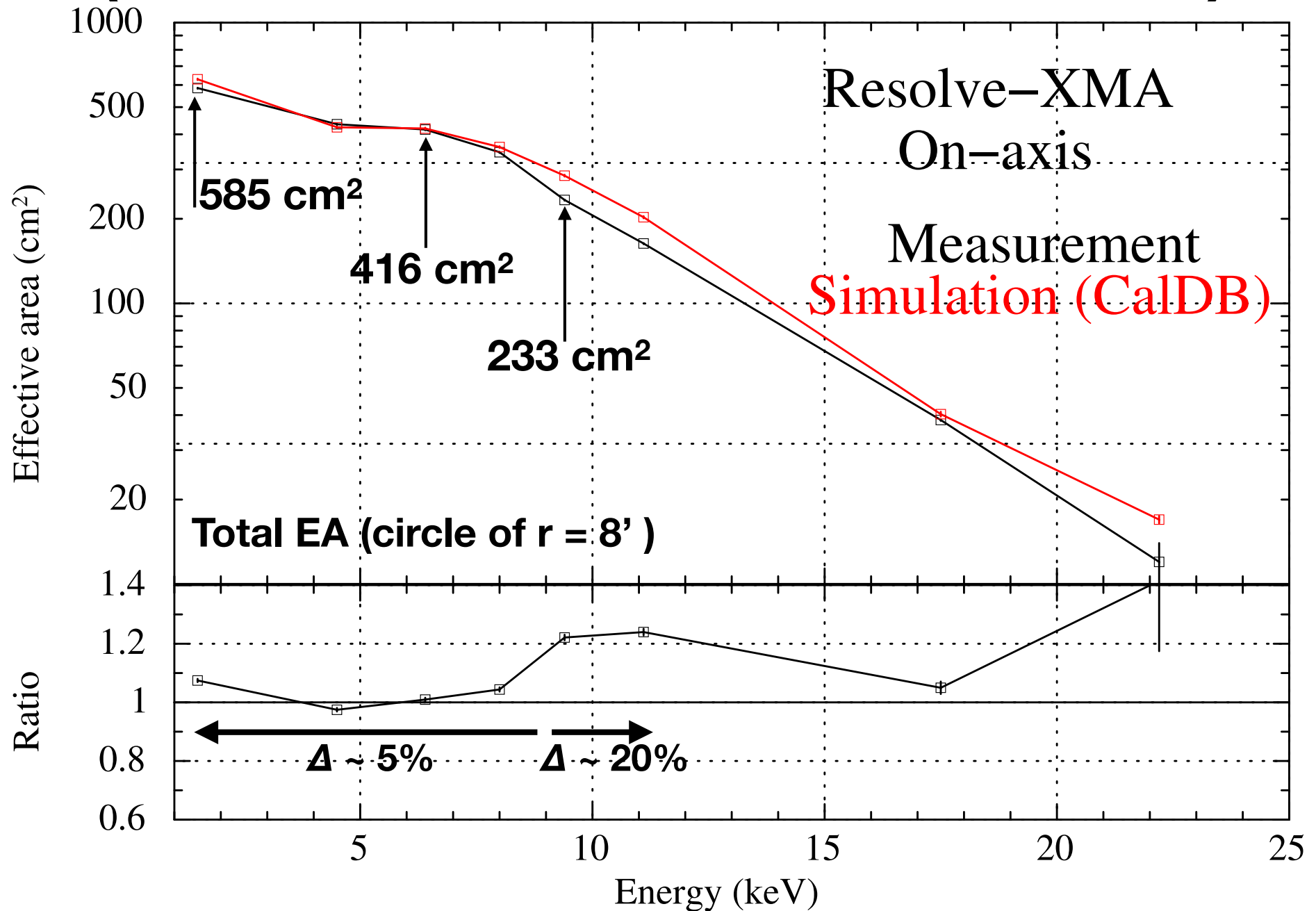


On-axis PSF (Measurement vs simulation)

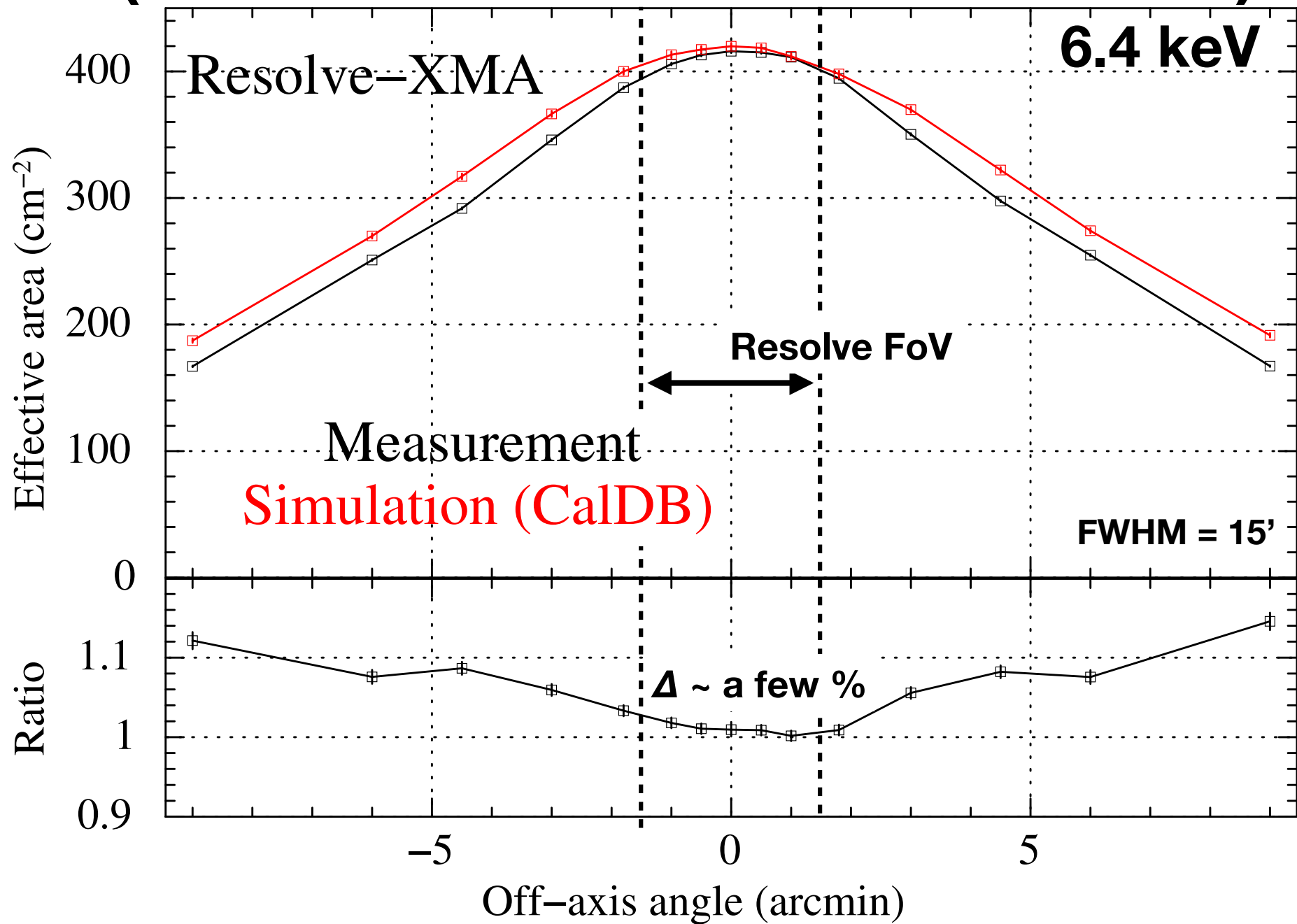


**PSF is well modeled
including the energy dependence in the tail**

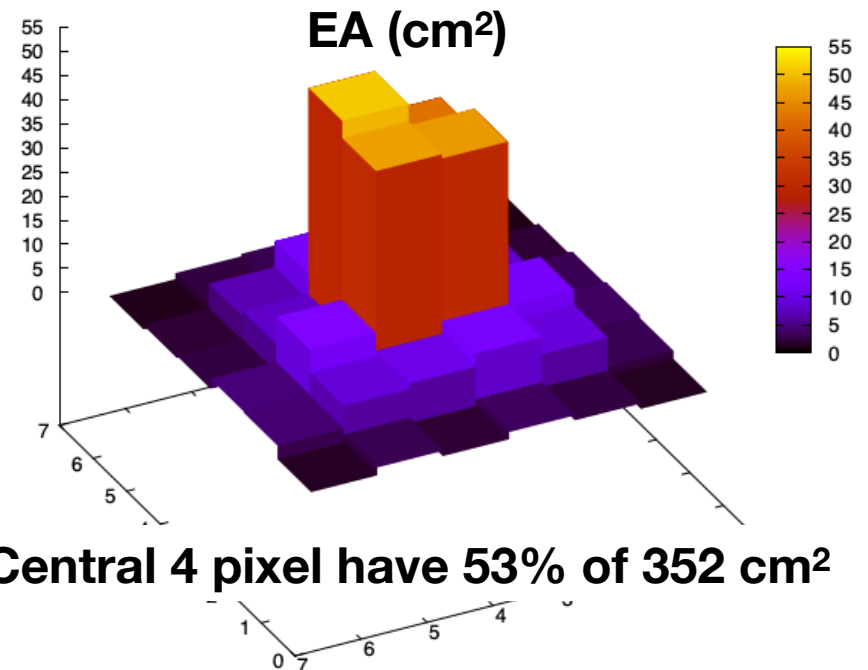
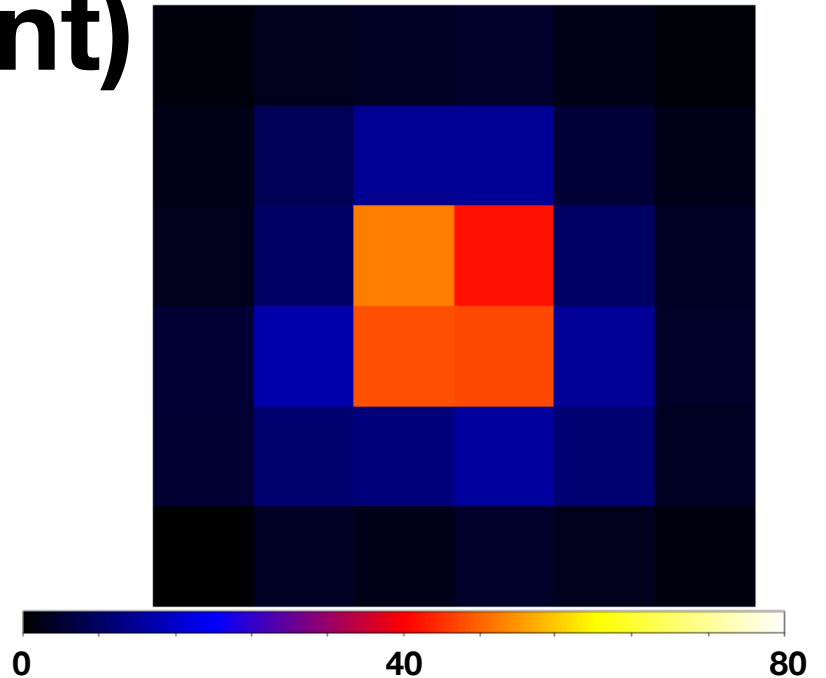
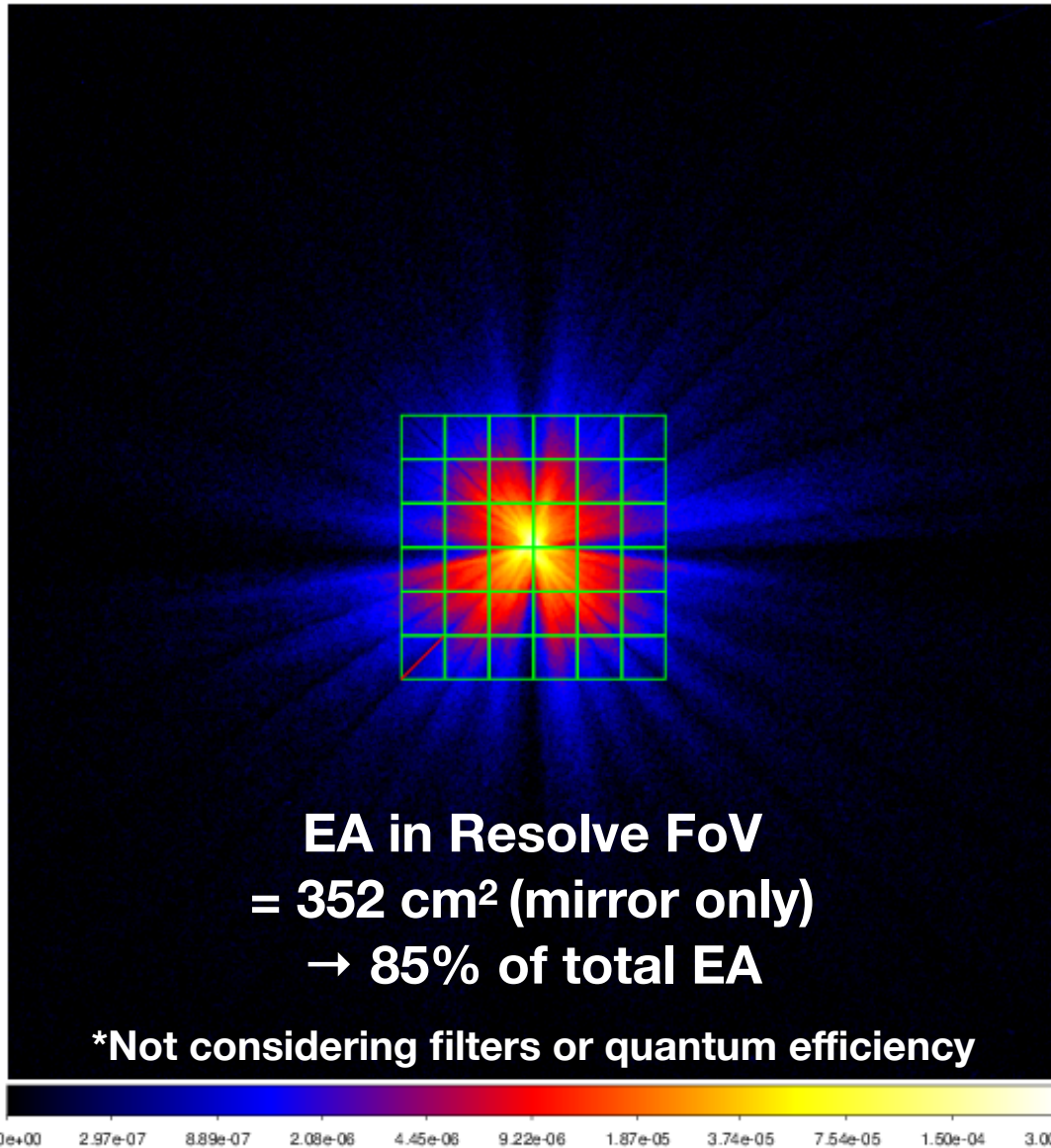
On-axis effective area (EA) (Measurement vs simulation)



Vignetting curve (Measurement vs simulation)



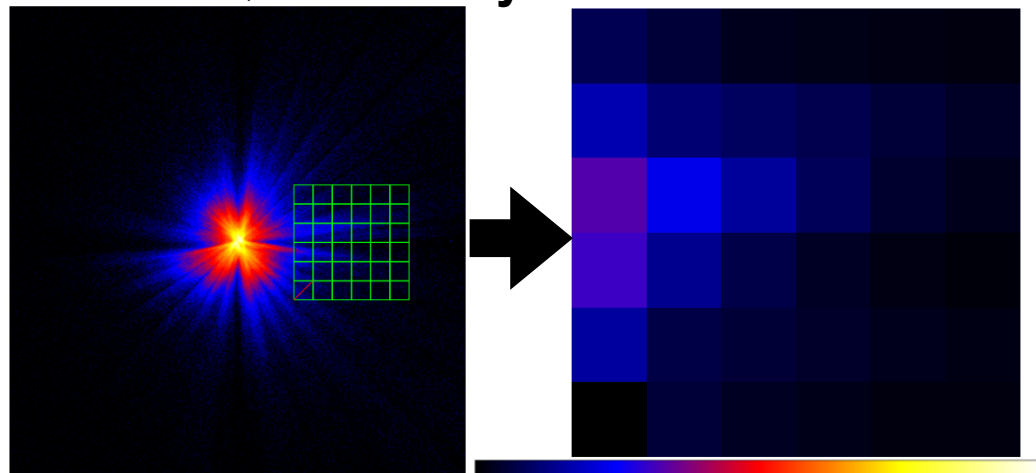
Resolve on-axis PSF (Measurement)



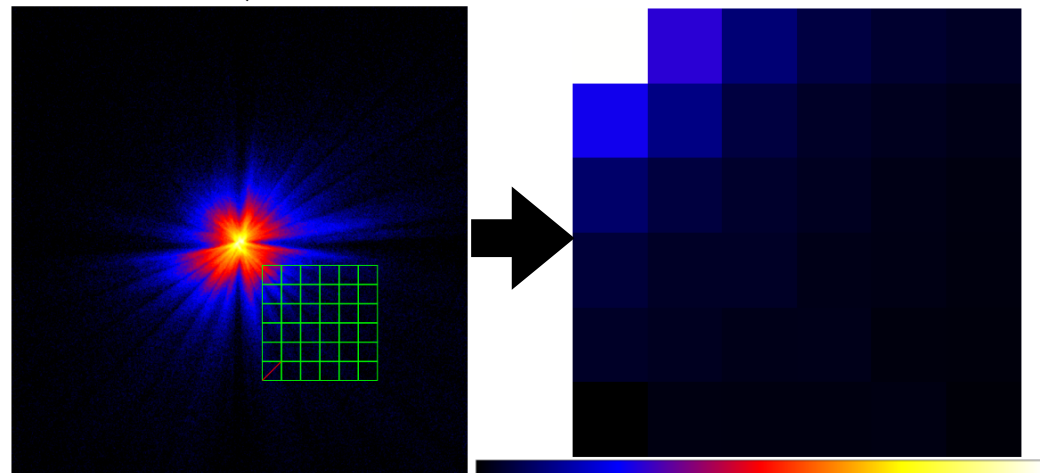
Resolve off-axis PSF (3' & 4.5')

(Measurement)

3'-off in QT boundary direction



3'-off in QT center direction

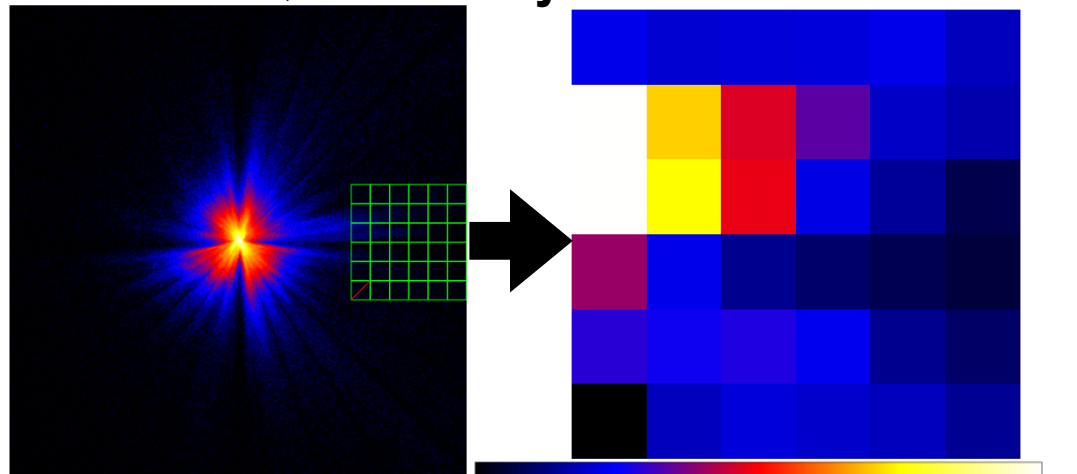


% of flux contamination from nearby source to on-axis source when nearby source is as bright as on-axis source

~ 3%

~ 3%

4.5'-off in QT boundary direction

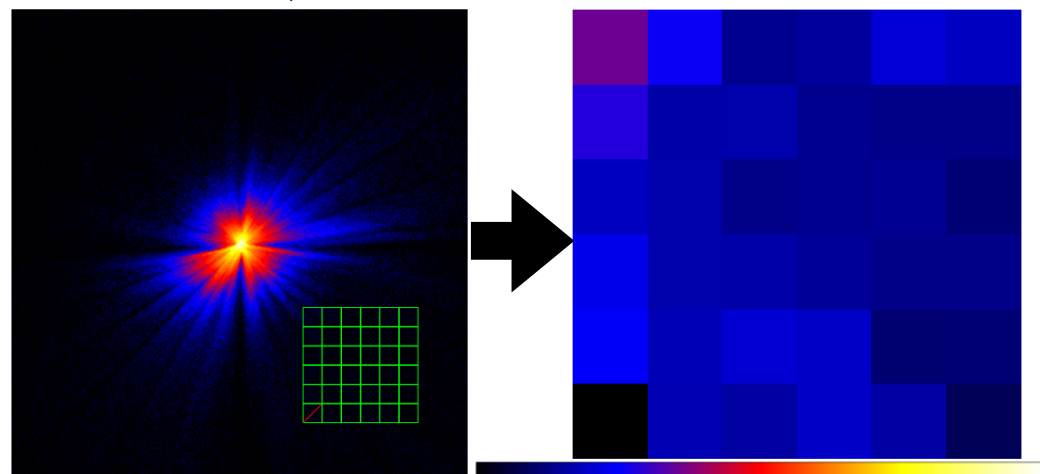


Scale is different in different off-axis angle

~ 0.5%

0.2

4.5'-off in QT center direction



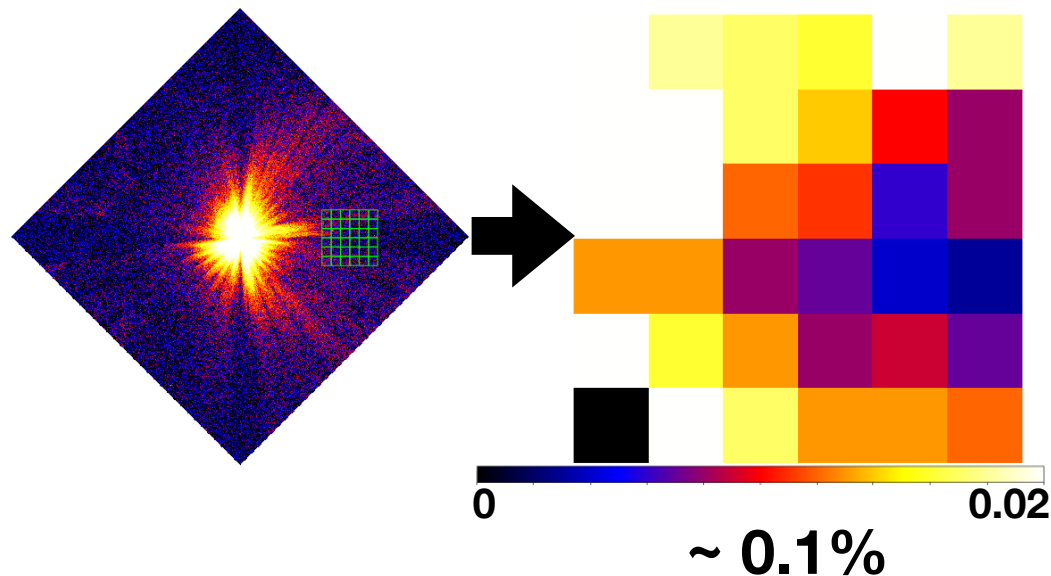
~ 0.3%

0.2

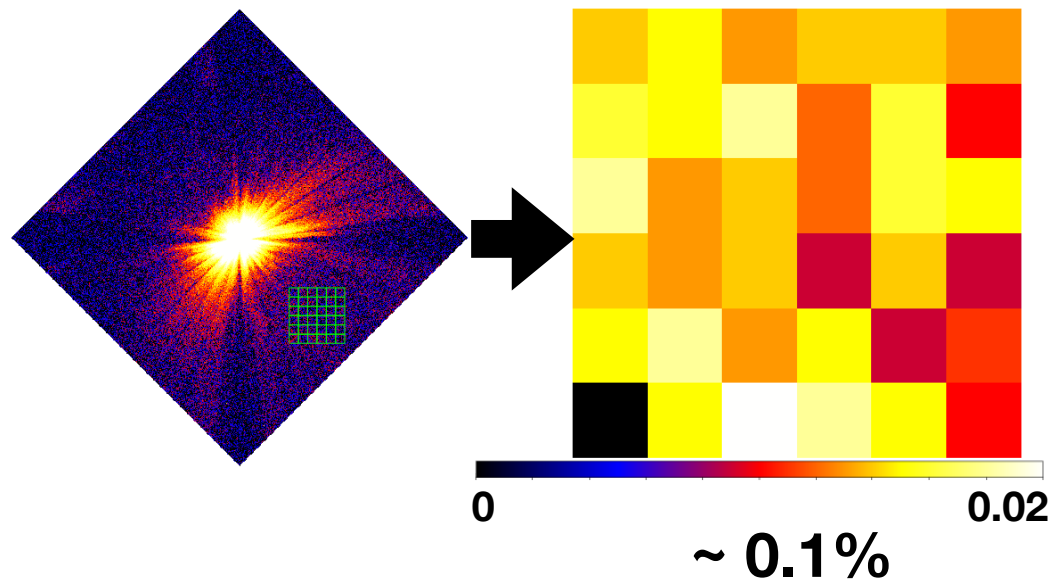
Resolve off-axis PSF (6' & 9')

(Measurement)

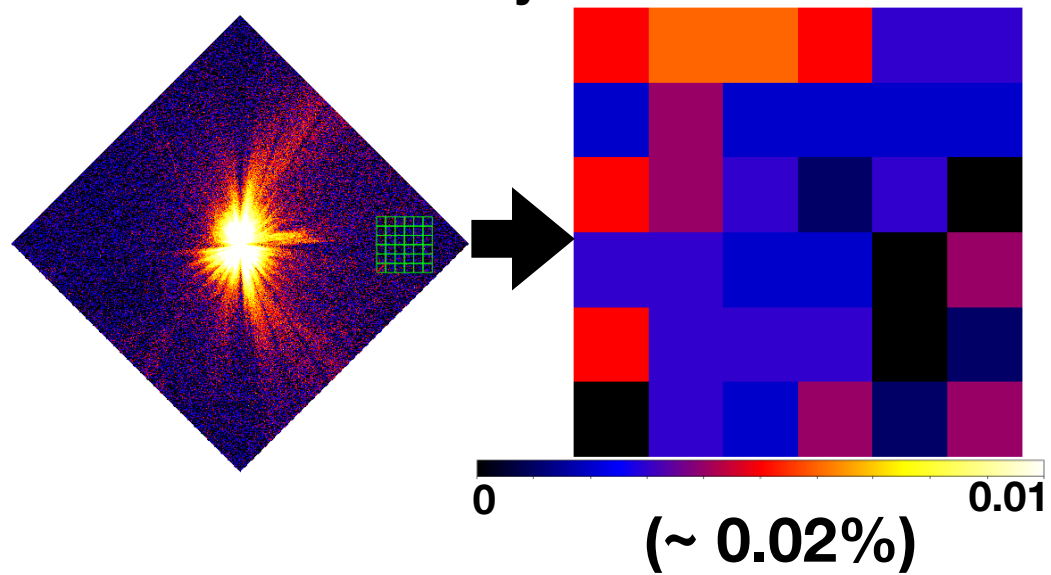
6'-off in QT boundary direction



6'-off in QT center direction



9'-off in QT boundary direction



9'-off in QT center direction

