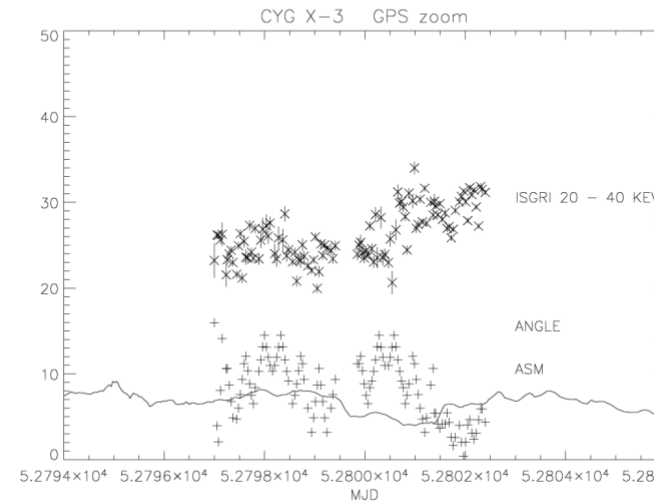
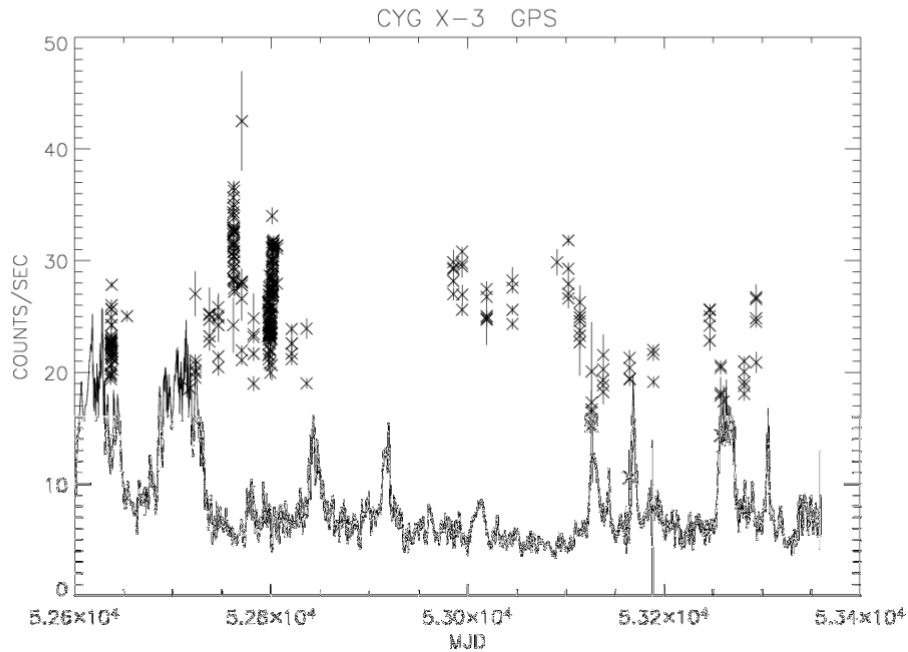


JET SOURCES

CYG X-3 and GRS 1915+105

- CYG X-3 DURING GPS
- GRS 1915+105 DURING AO-1/REV 48
- Hannikainen D.C., Hjalmarsdotter L., Rodriguez J., Paizis A., Beckmann V., Shaw S., Vilhu O., Zdziarski A., Hakala P., Pooley G., Lund N., Westergaard N., Kretchmar P., Belloni T., et al.

Cyg X-3/ISGRI/GPS



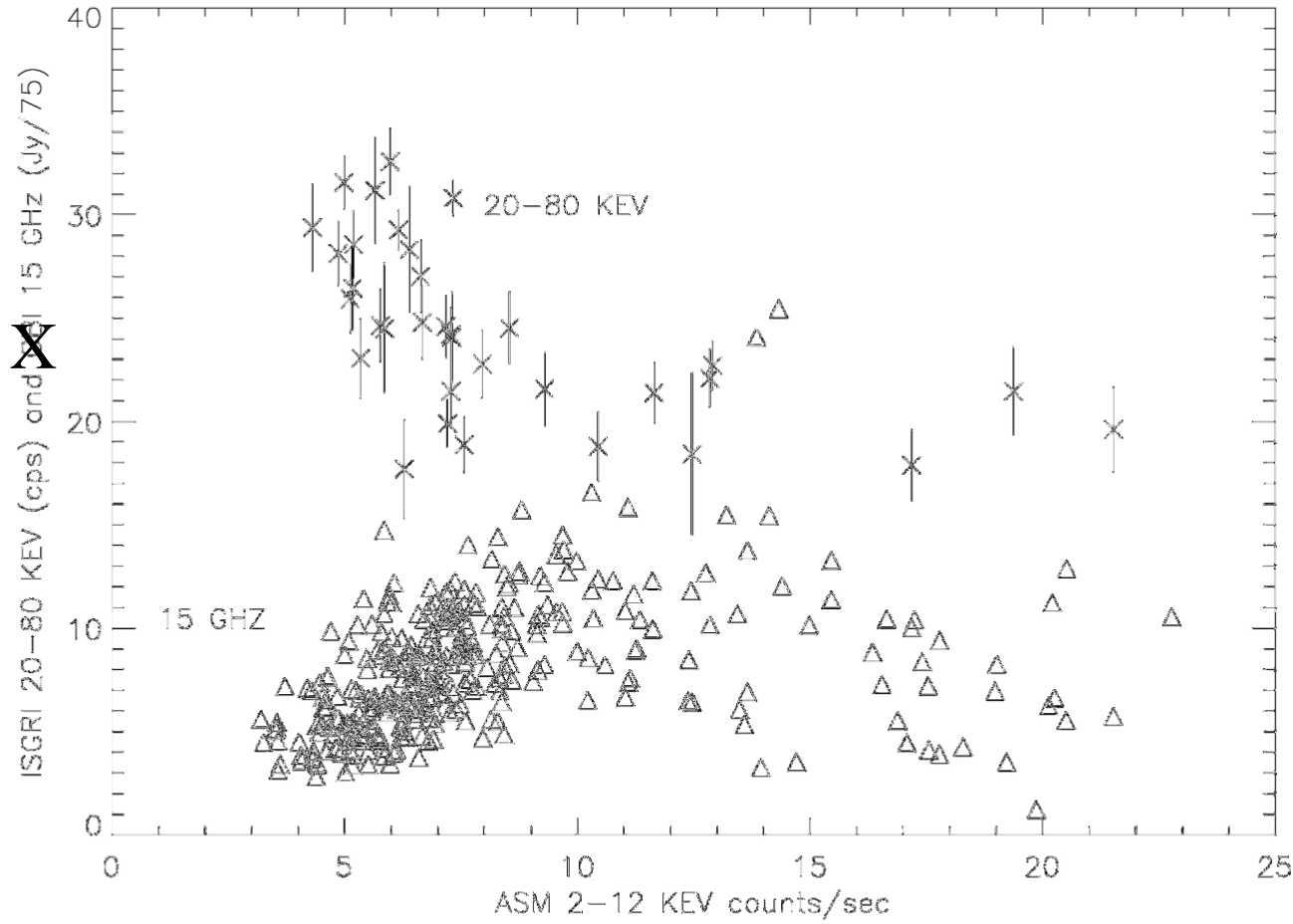
Orbital modulation de-convolved

ISGRI-RYLE-ASM

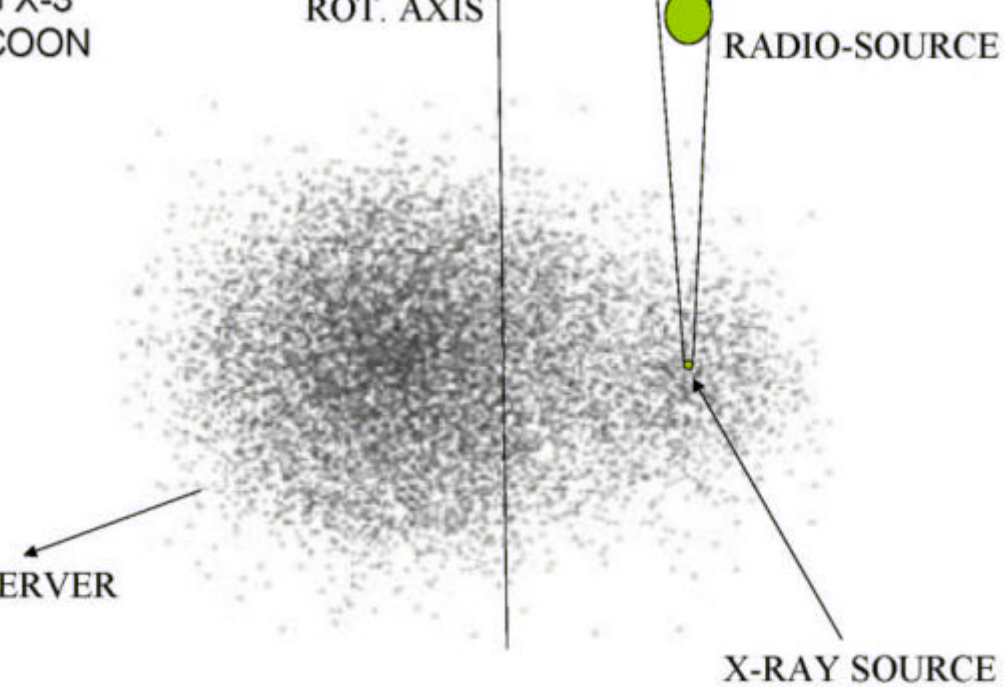
CYG X-3 MJD 52600 - 53350 DAILY MEANS

I
S
G
R
I

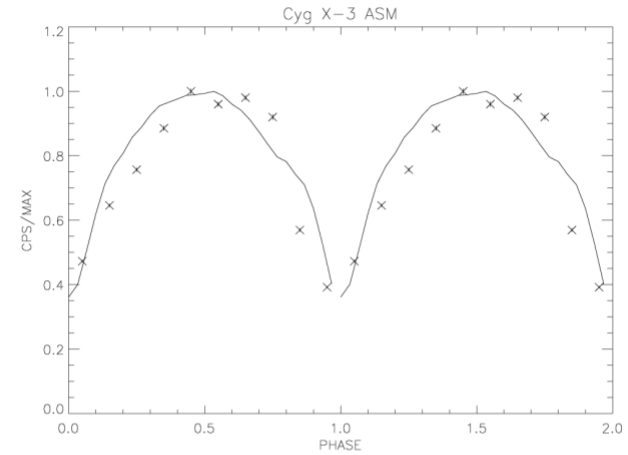
R
Y
L
E



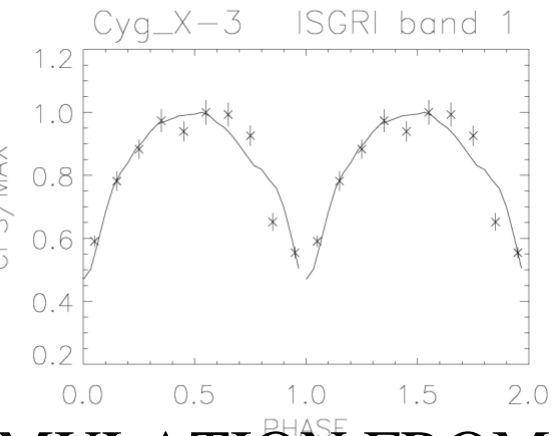
0.4 Crab



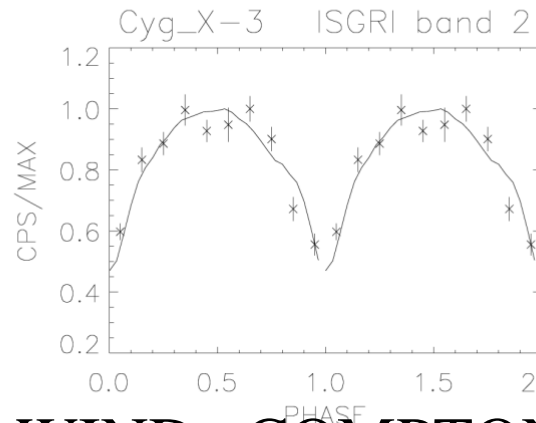
2 – 12 KEV



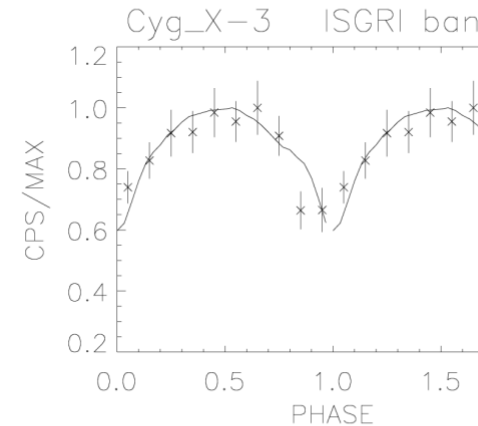
20 – 40 KEV



40 – 60 KEV

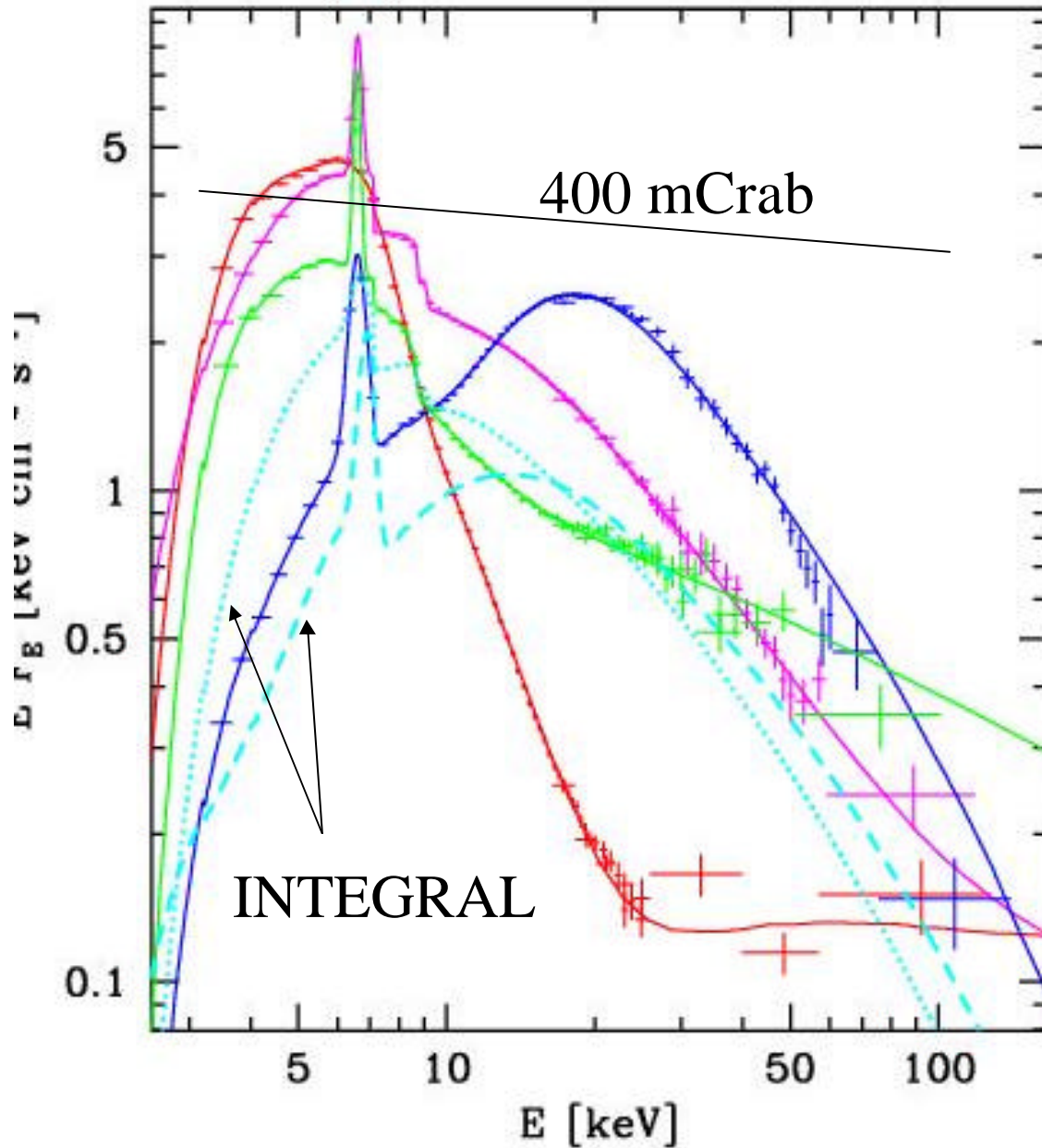


60 – 80 KEV

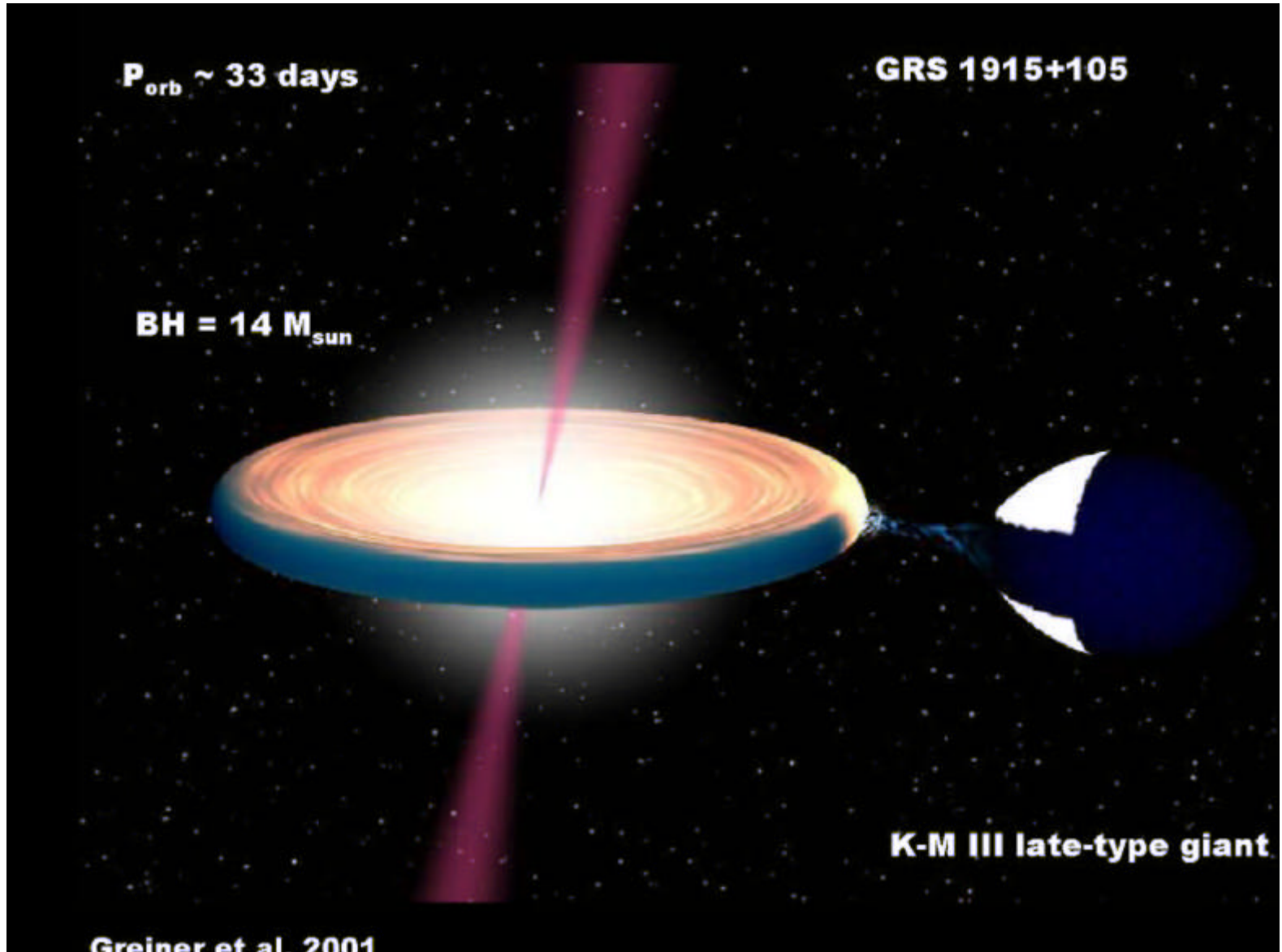


MULATION FROM WR-WIND , COMPTON SCATT CROSS,

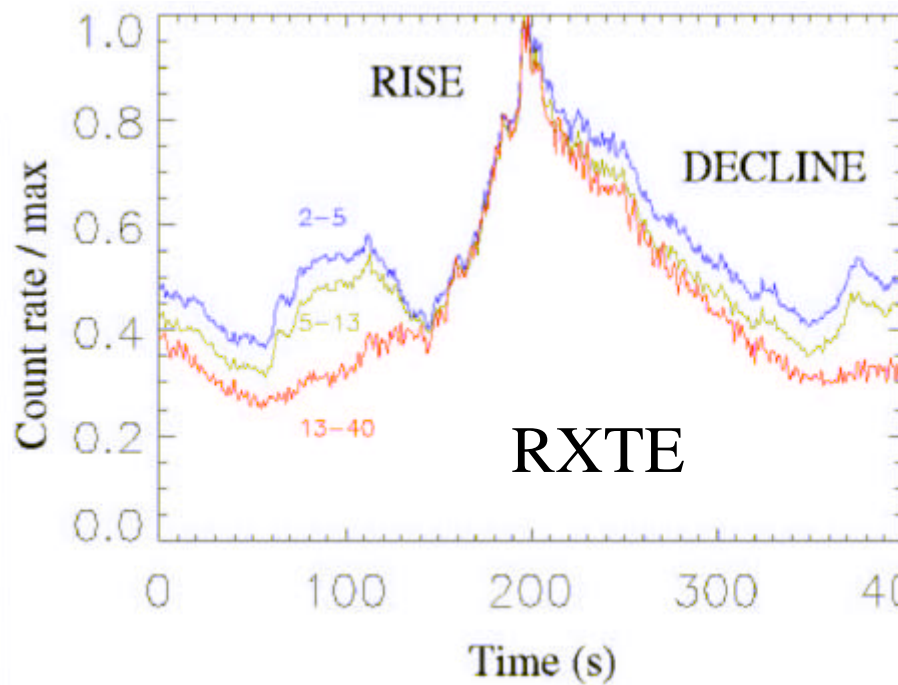
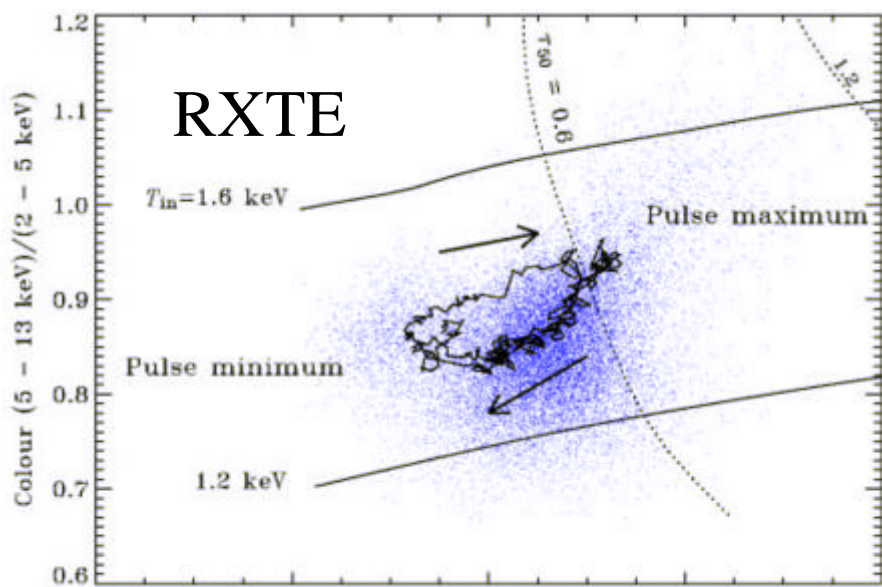
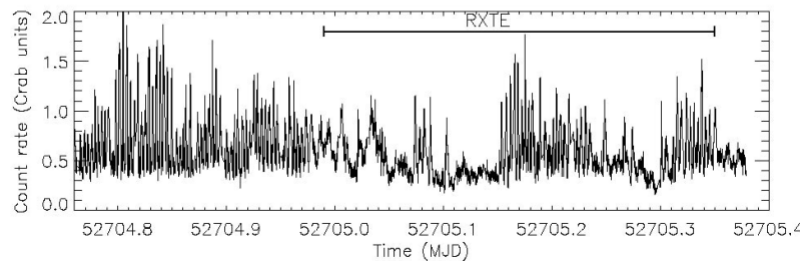
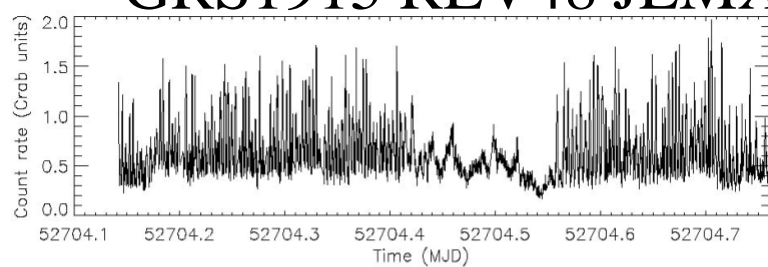
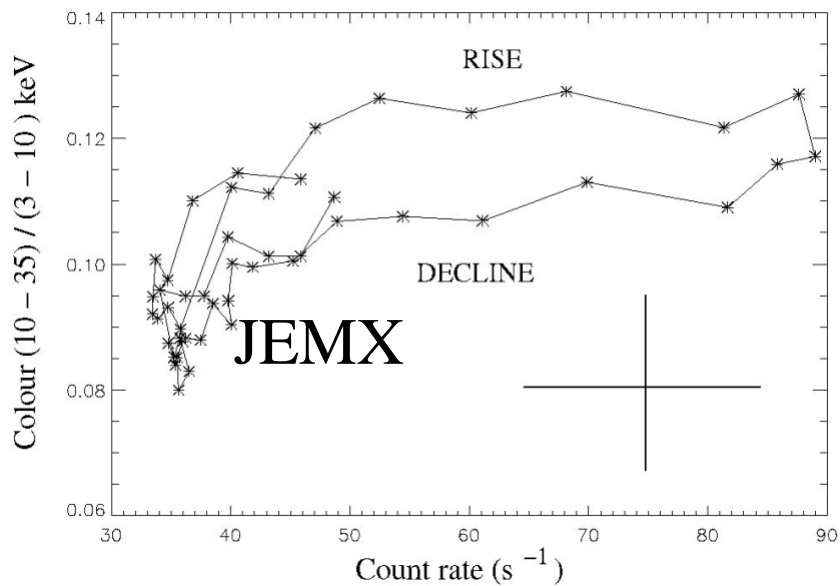
$E \cdot F(E)$



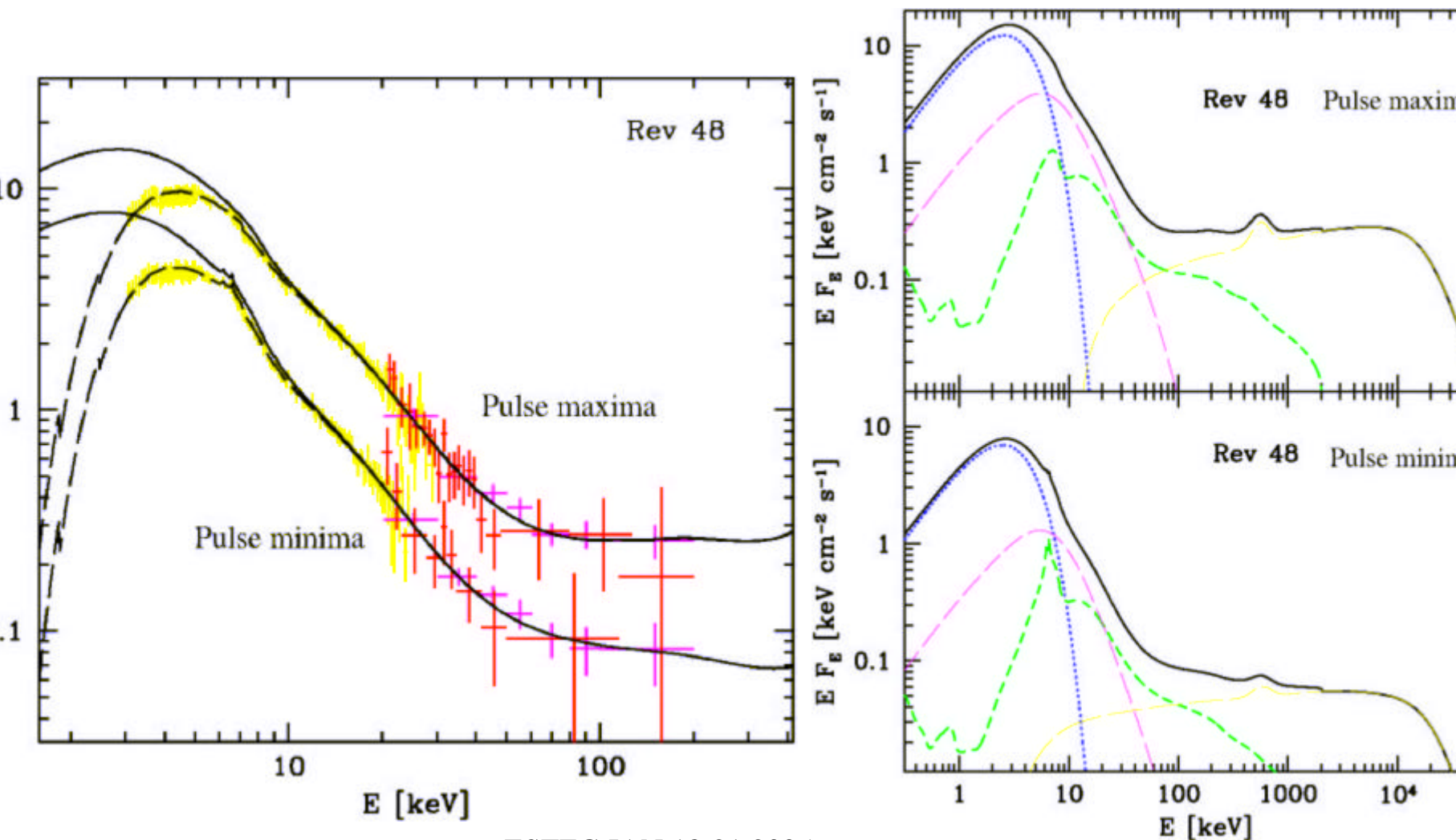
BINARY STAR GRS1915+105



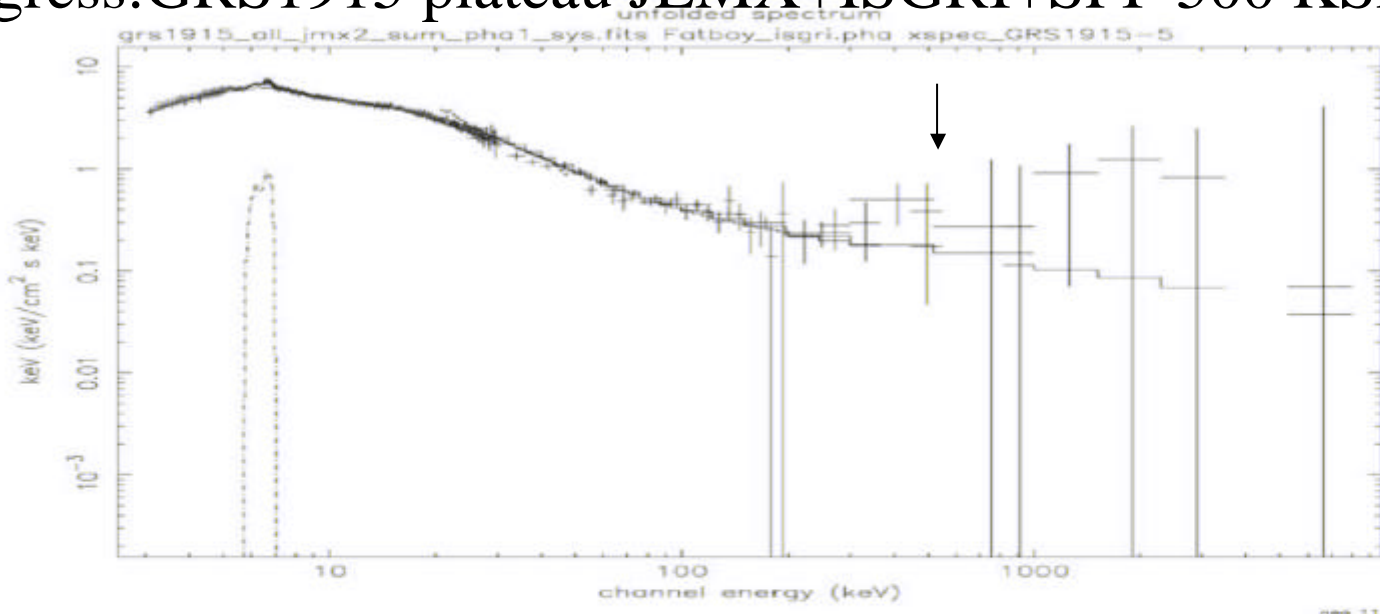
REV 48 LC



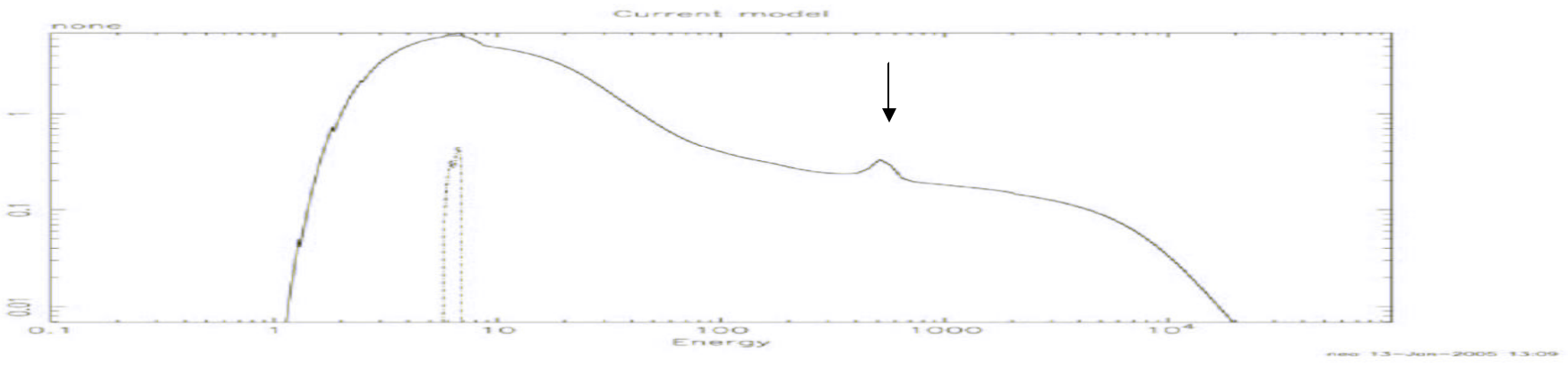
JEMX+ISGRI+SPI spectra



In progress:GRS1915 plateau JEMX+ISGRI+SPI 500 KSEC



EQPAIR MODEL . fit 3 – 300 keV . PREDICTS 511 KEV LINE.



conclusions

- **Cyg X-3**: was in the low-medium state during 2003-2004 GPS. ISGRI and ASM-Radio anticorrelate. Folded ISGRI light curves permit modelling of the hard X-ray absorber.
ISWT: consider to add a soft ToO (ASM 2-10 keV 400 mCrab)
- **GRS 1915+105**: A new variability type discovered and characterized during rev 48. Modelling of Jem-X, ISGRI and SPI spectra below 300 keV predict non-thermal components and 511 keV line.
All: Push the Integral sensitivity and bkg subtraction to the ultimate limit to detect 511 keV.