

Simultaneous observations with Chandra and XMM:

Luxury or Necessity ?

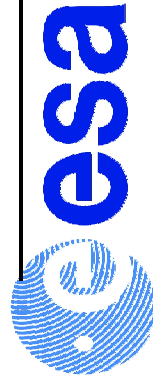
(and something about the RGS)_

Chandra Calibration Workshop

27-28 October 2003

Andy Pollock

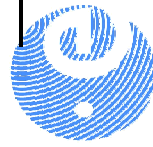
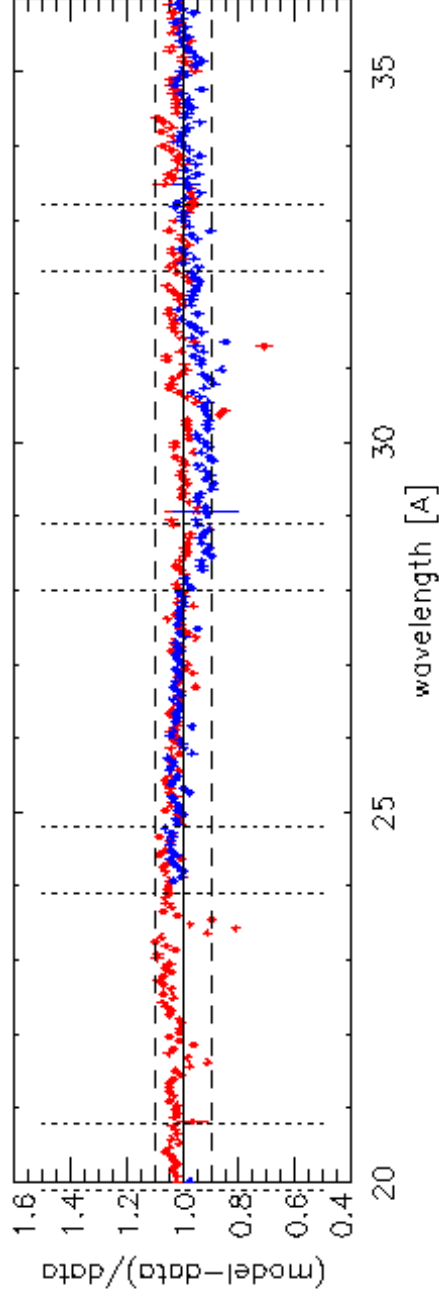
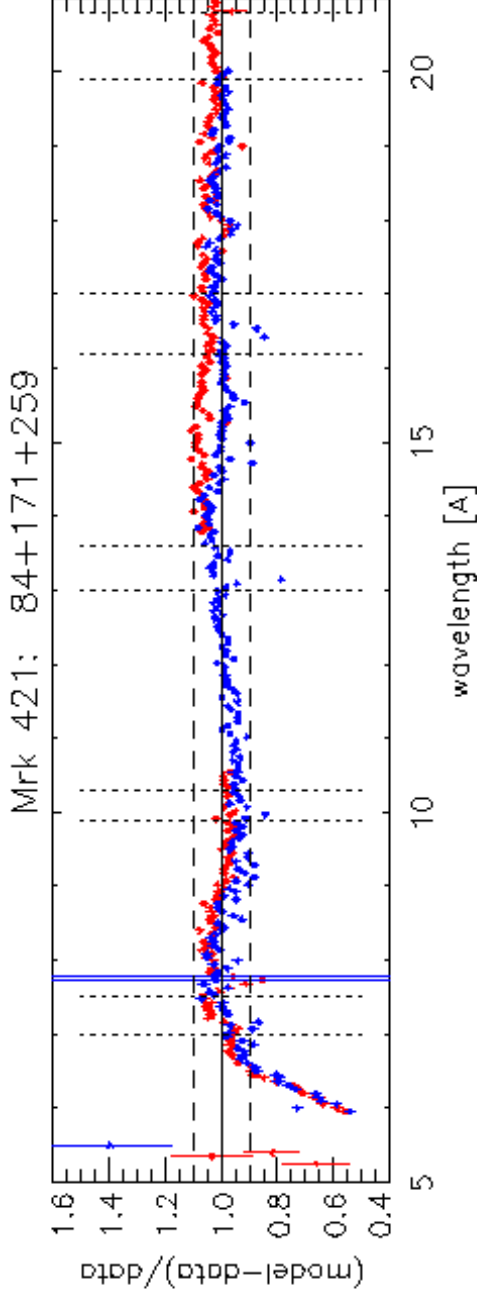
SRON : Columbia : MSSL : PSI : RSSD



XMM-Newton

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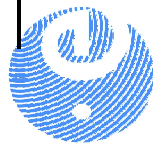
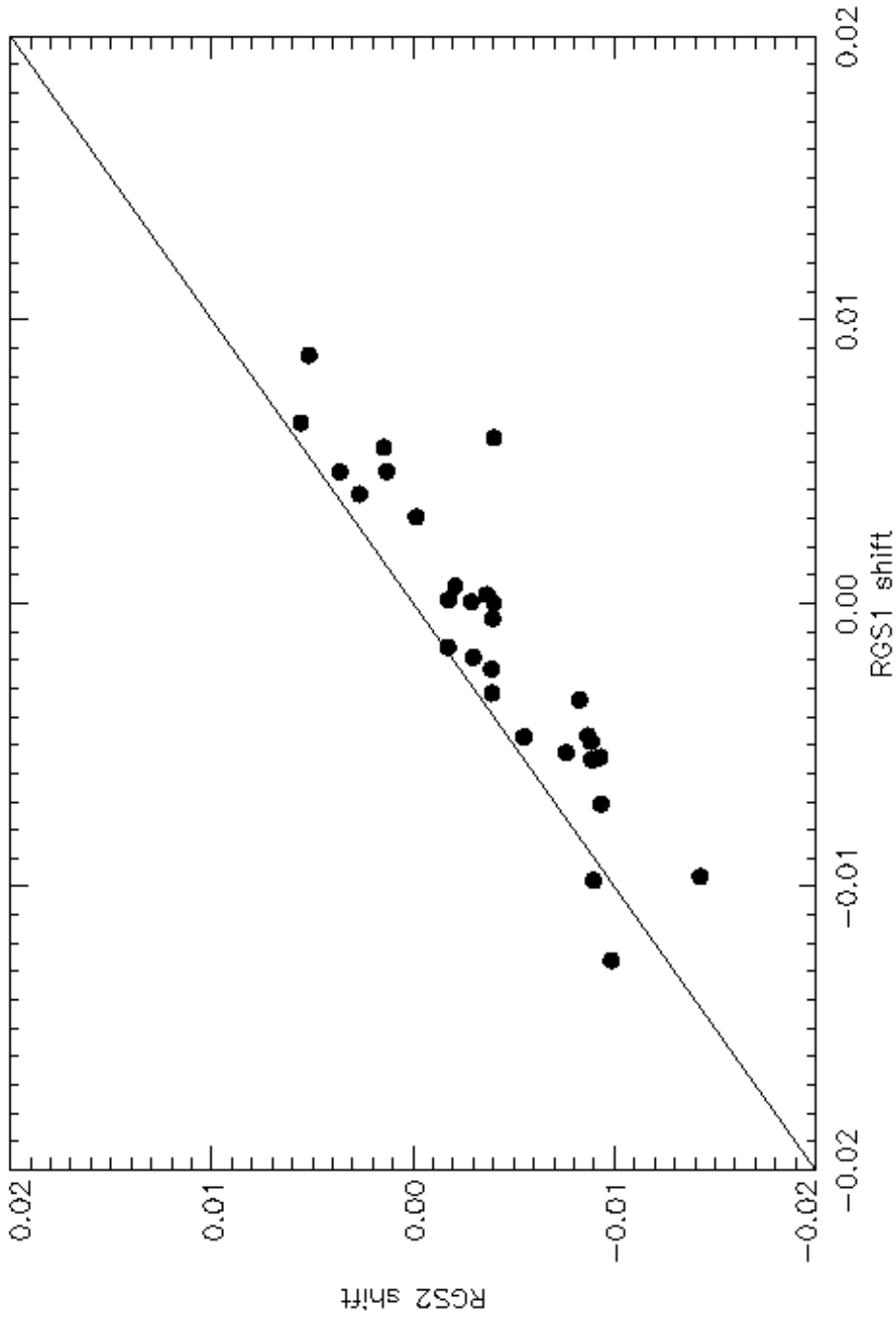
RGS effective area systematics



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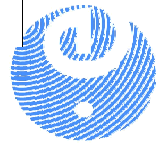
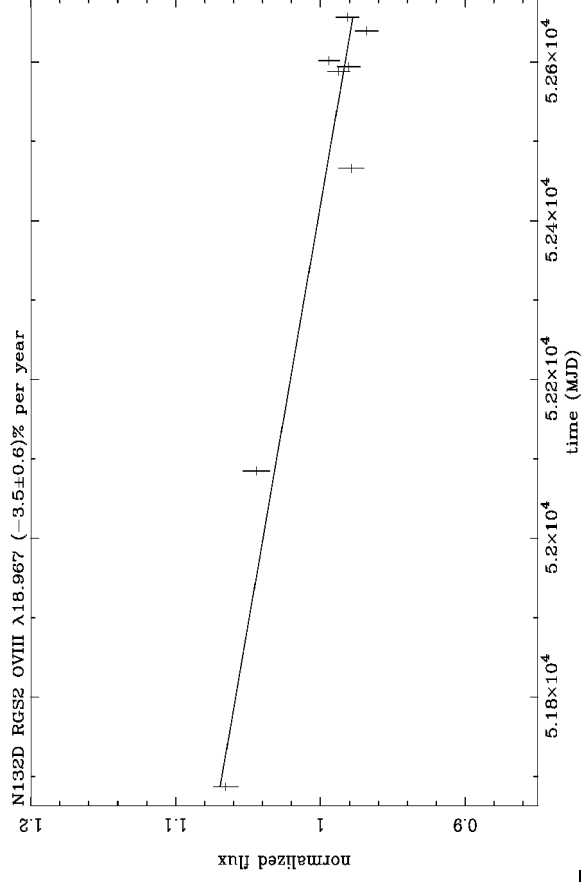
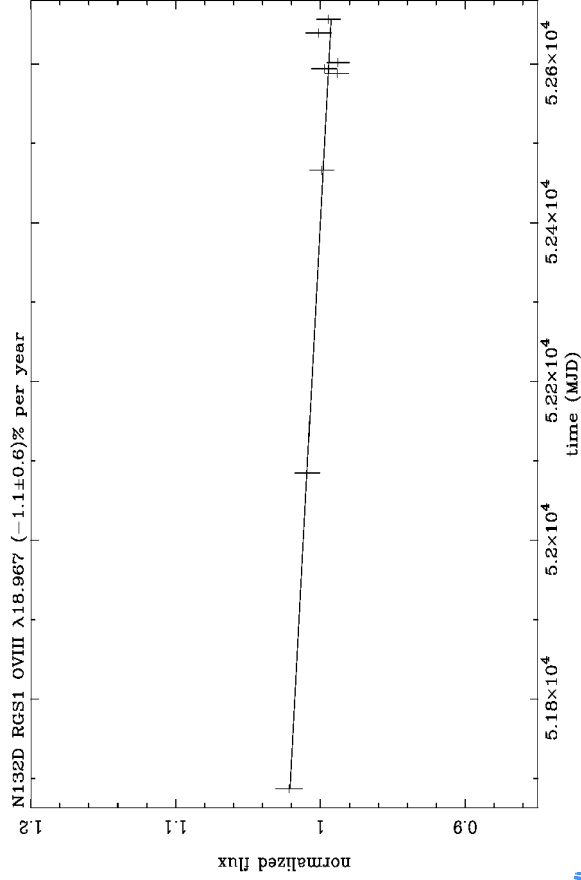
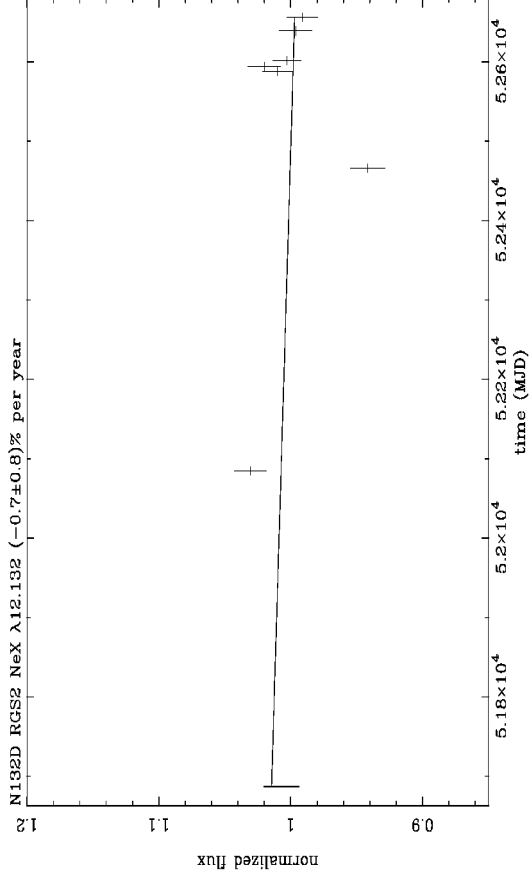
RGS λ scale : RGS1 v RGS2



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RGS sensitivity monitor : N132D

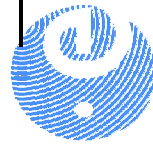
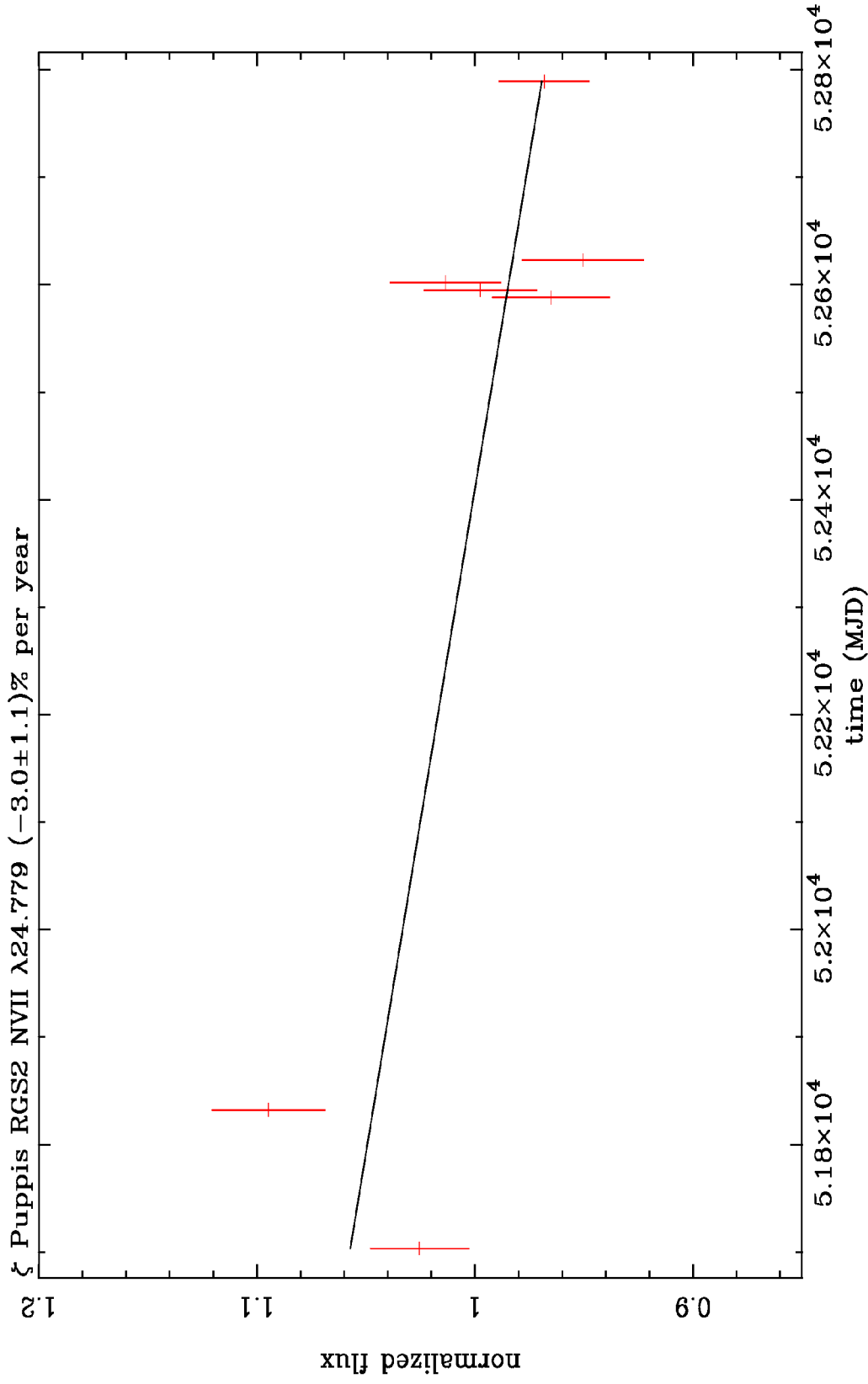


esa



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RGS sensitivity monitor : ζ Puppis

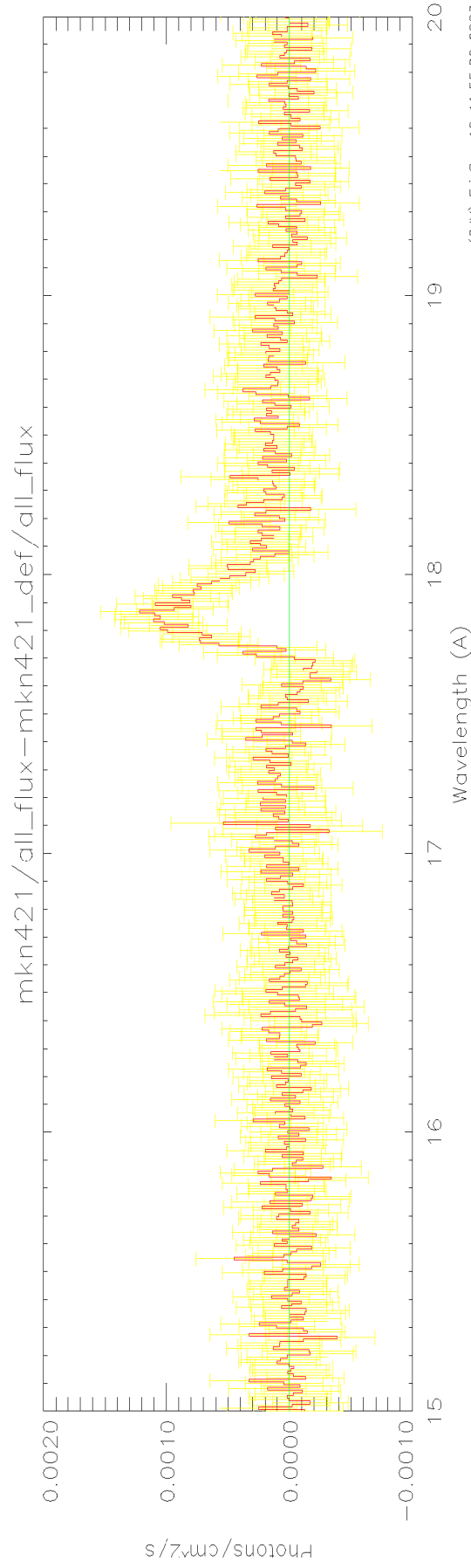
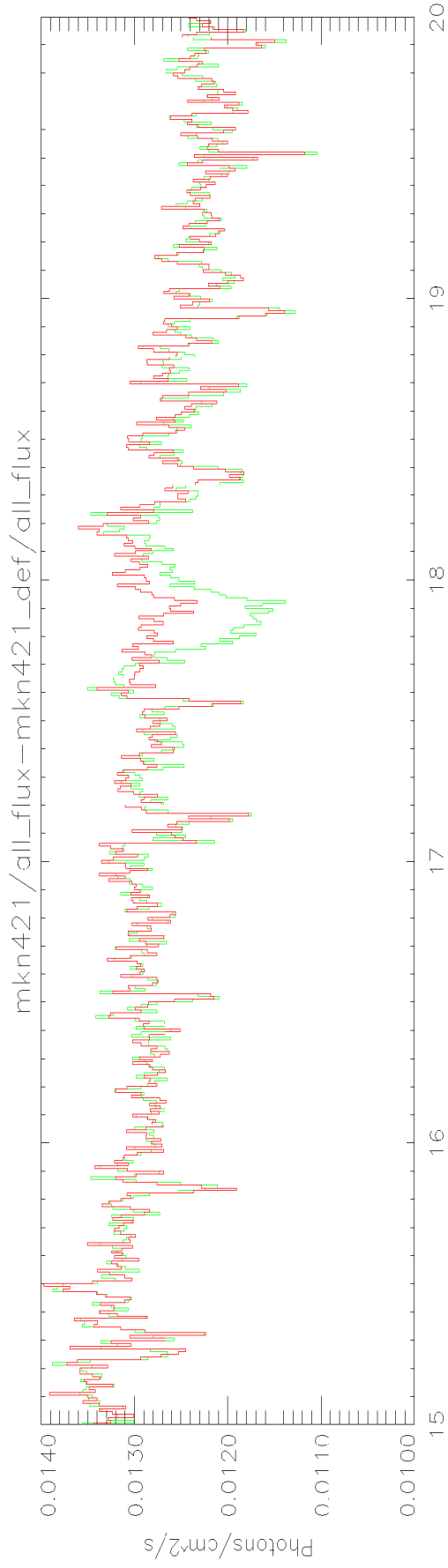


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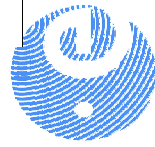
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RGS calibration : new EXAFS CCF



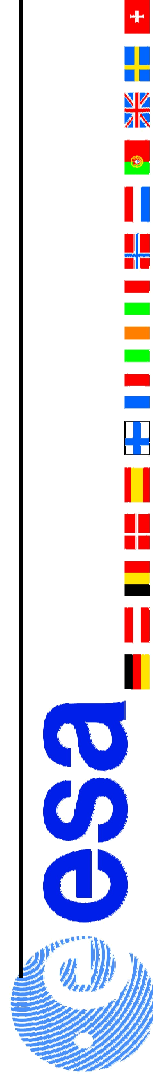
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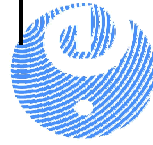
Simultaneous calibration observations

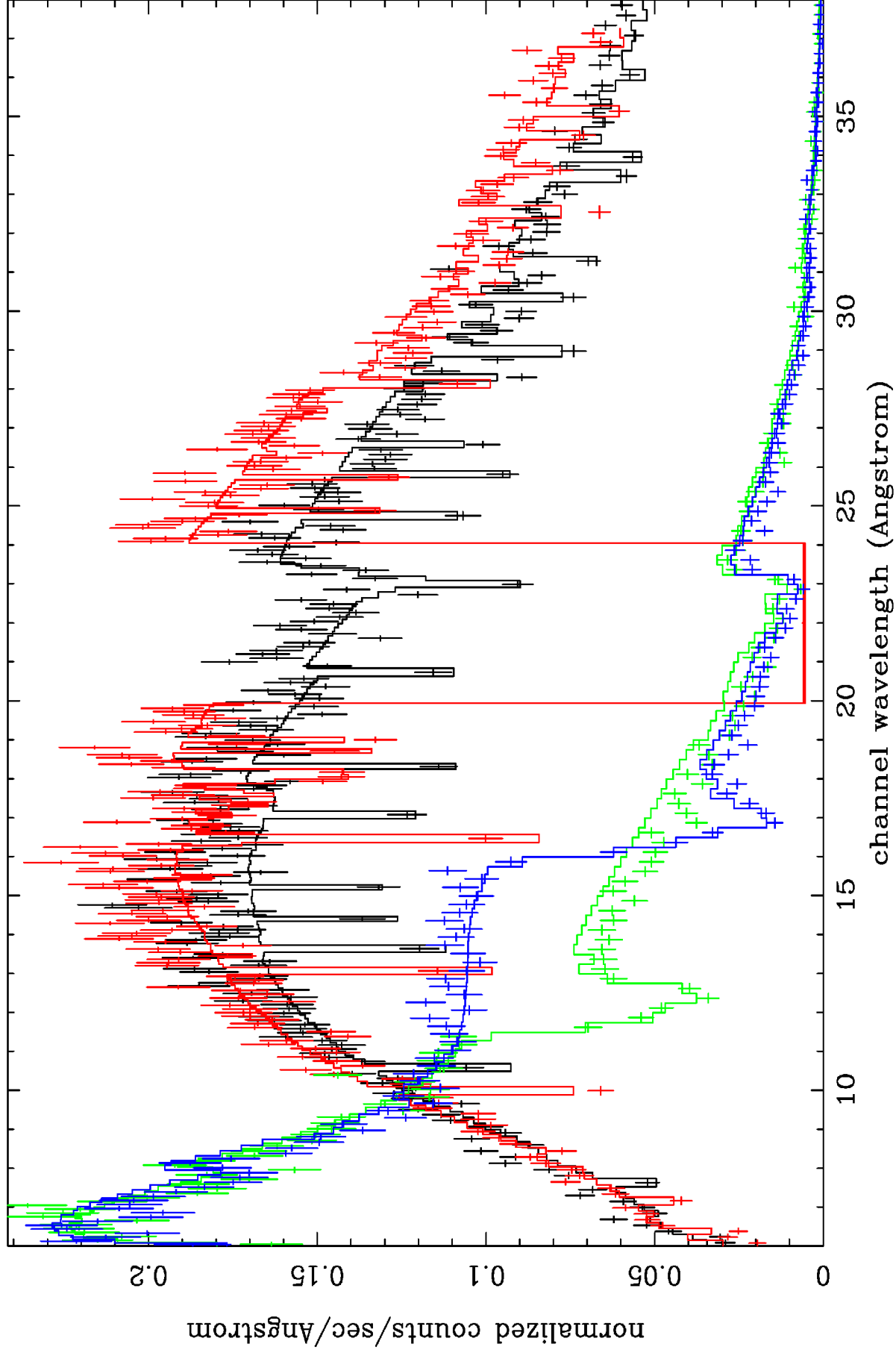
| | | | | |
|-------------|------------|-------------|-------------|------------|
| Capella | 2000-03-03 | ACIS-S+HETG | | |
| PKS2155-304 | 2000-05-31 | ACIS-S+HETG | ACIS-S+LETG | HRC-S+LETG |
| 3C273 | 2001-06-13 | ACIS-S+HETG | ACIS-S+LETG | HRC-S+LETG |
| PKS2155-304 | 2001-11-30 | ACIS-S+HETG | ACIS-S+LETG | HRC-S+LETG |
| PKS2155-304 | 2002-11-29 | ACIS-S+HETG | ACIS-S+LETG | HRC-S+LETG |
| 3C273 | 2003-07-07 | ACIS-S+HETG | ACIS-S+LETG | |



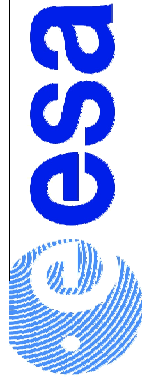
Other simultaneous observations

| | | | |
|---------|------------|-------------|------------|
| Akn564 | 2000-06-17 | ACIS-S+HETG | |
| YY Gem | 2000-09-29 | | HRC-S+LETG |
| UX Ari | 2001-02-15 | | HRC-S+LETG |
| NGC3516 | 2001-04-10 | ACIS-S+HETG | |
| NGC3516 | 2001-11-09 | ACIS-S+HETG | |
| NGC2110 | 2003-03-05 | ACIS-S+HETG | |
| NGC526A | 2003-06-21 | ACIS-S+HETG | |



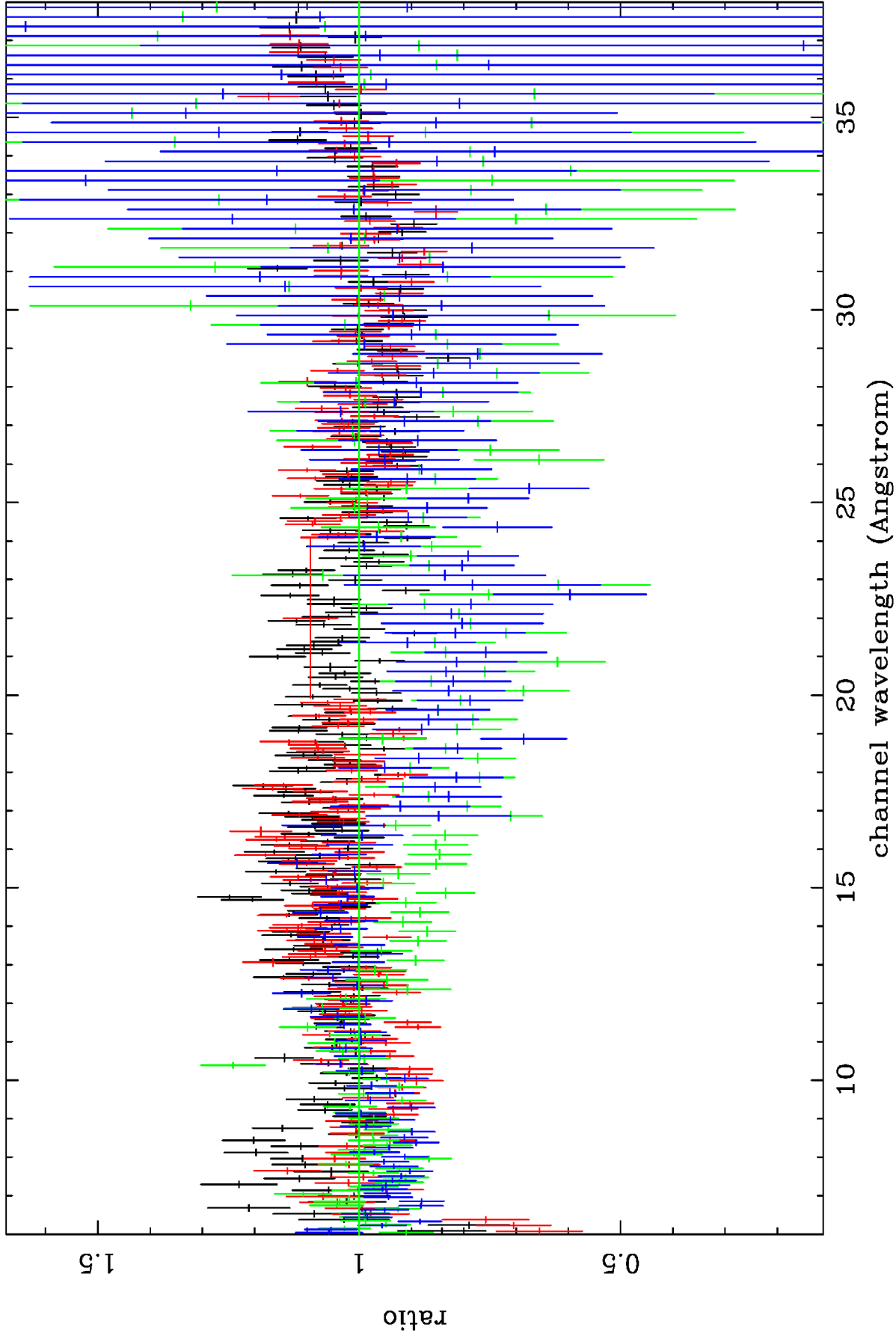


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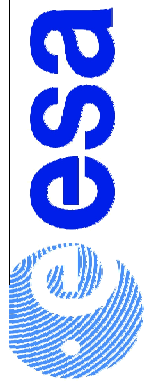


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Simultaneous RGS and ACIS-S+LETG spectra of PKS2155-304



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Simultaneous X-ray spectroscopy of YY Gem with *Chandra* and *XMM-Newton*

B. Stelzer¹, V. Burwitz¹, M. Audard², M. Güdel², J.-U. Ness³, N. Grosso¹, R. Neuhäuser¹, J. H. M. M. Schmitt³,
P. Predehl¹, and B. Aschenbach¹

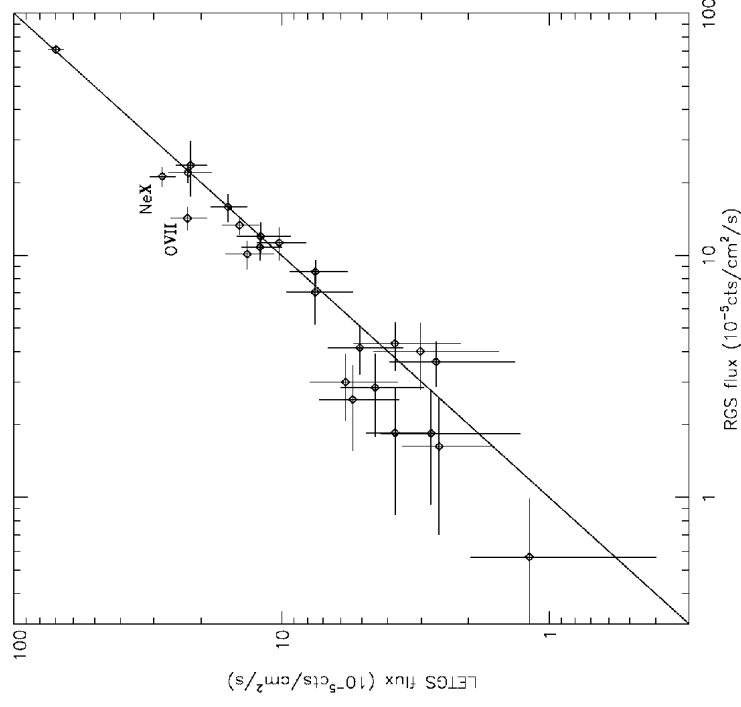
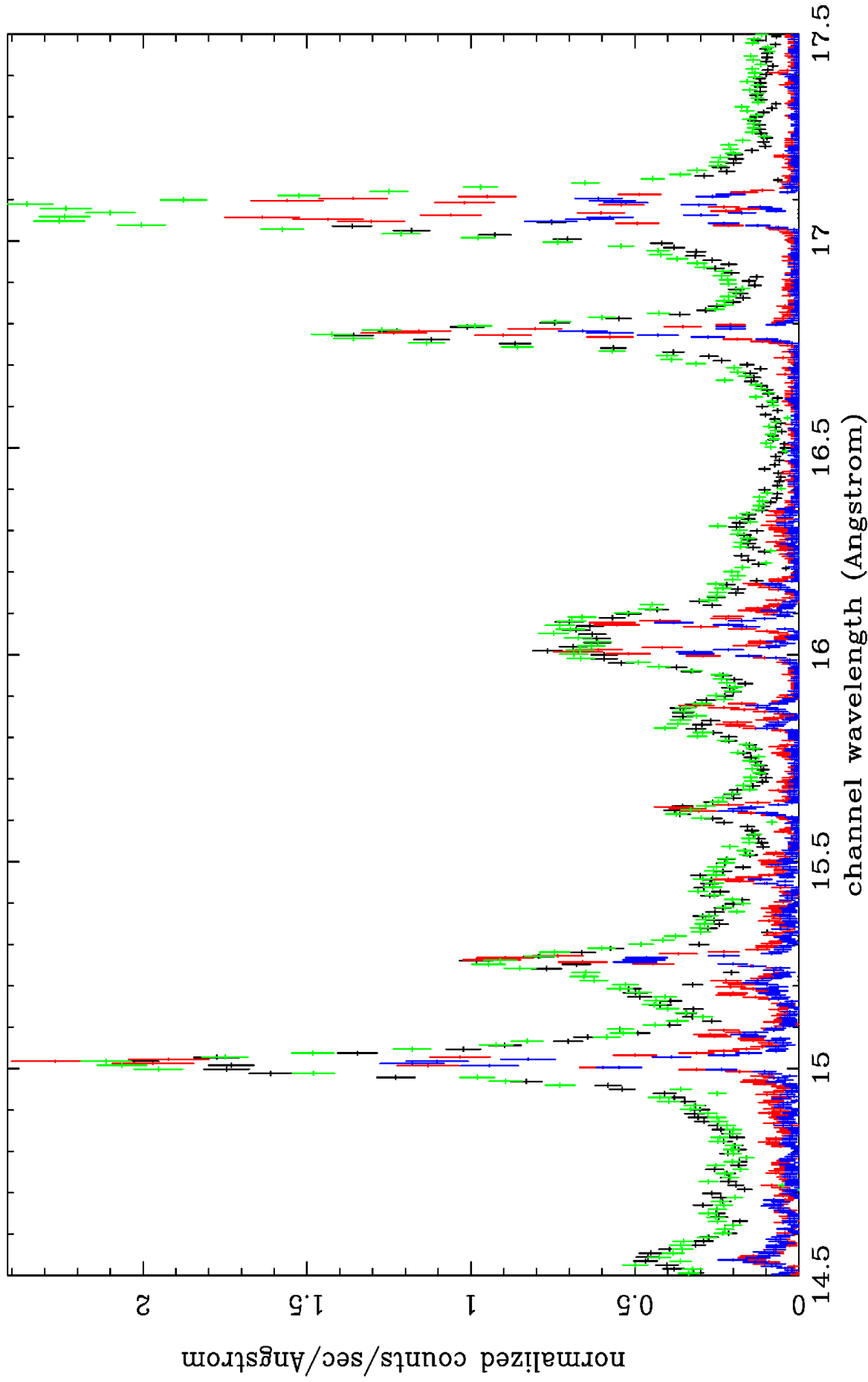
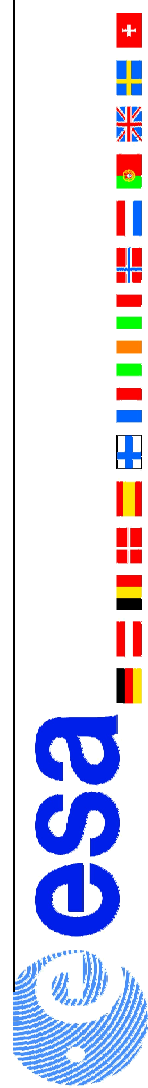


Fig. 4. Comparison of LETGS and RGS fluxes for individual emission lines; 2σ uncertainties.

Simultaneous RGS and HETG spectra of Capella



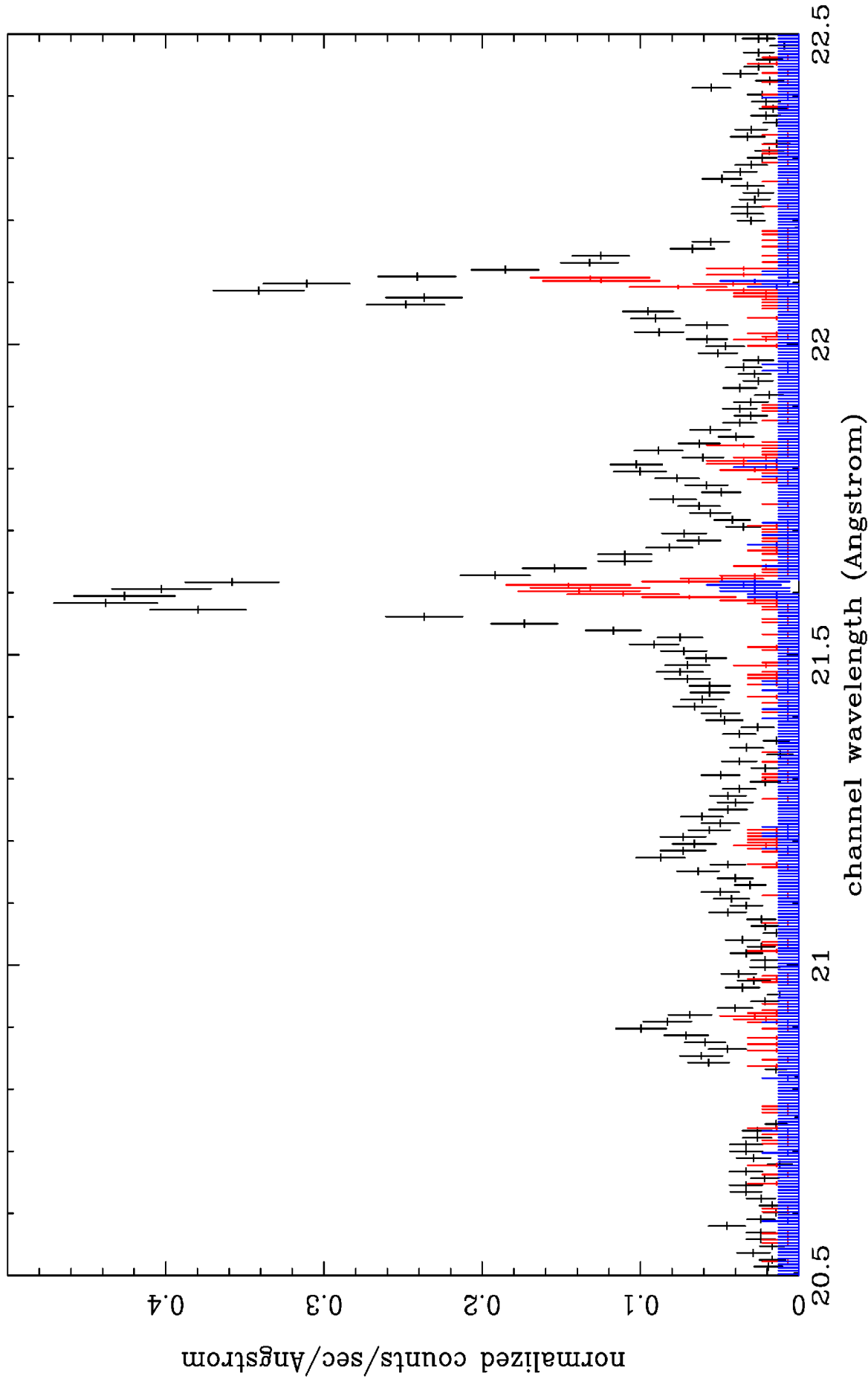
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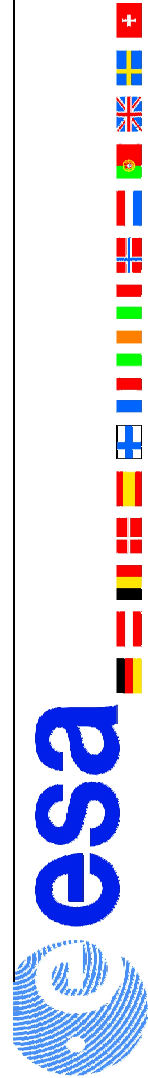
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Simultaneous RGS and HETG spectra of Capella



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