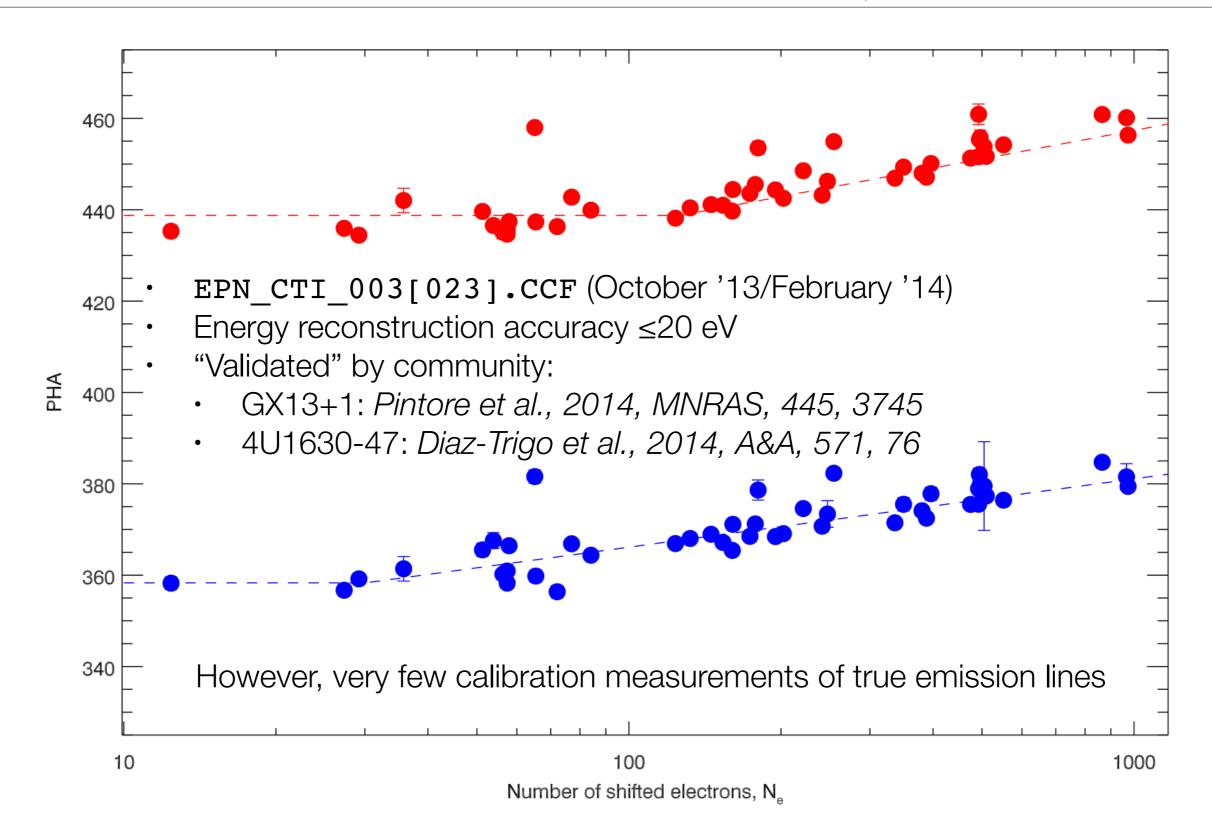
The CygX-3 IACHEC experiment: EPIC-pn results

Matteo Guainazzi (ASTRO-H ESA SOC & JAXA SOT) Andy Beardmore (University of Leicester) Norbert Schultz (MIT)

Outline

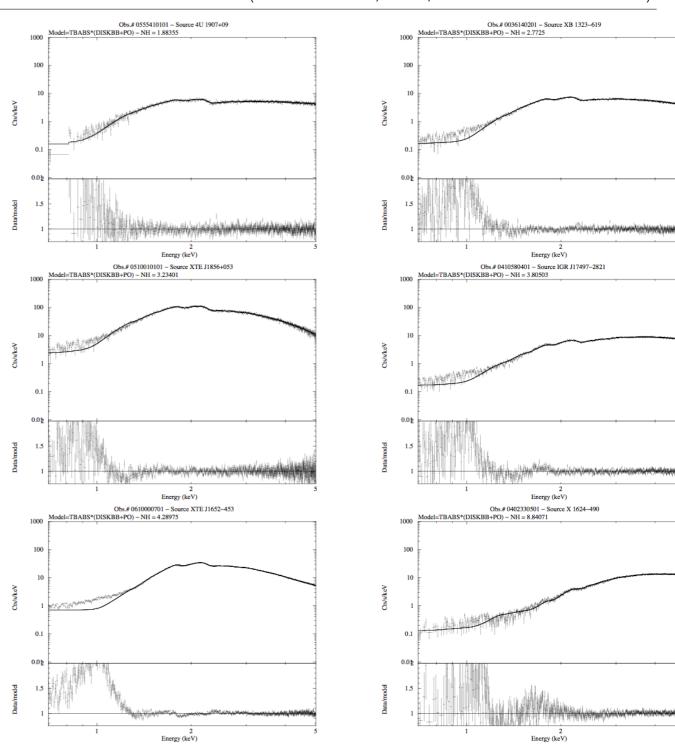
- Background
- Why CygX-3?
- Results



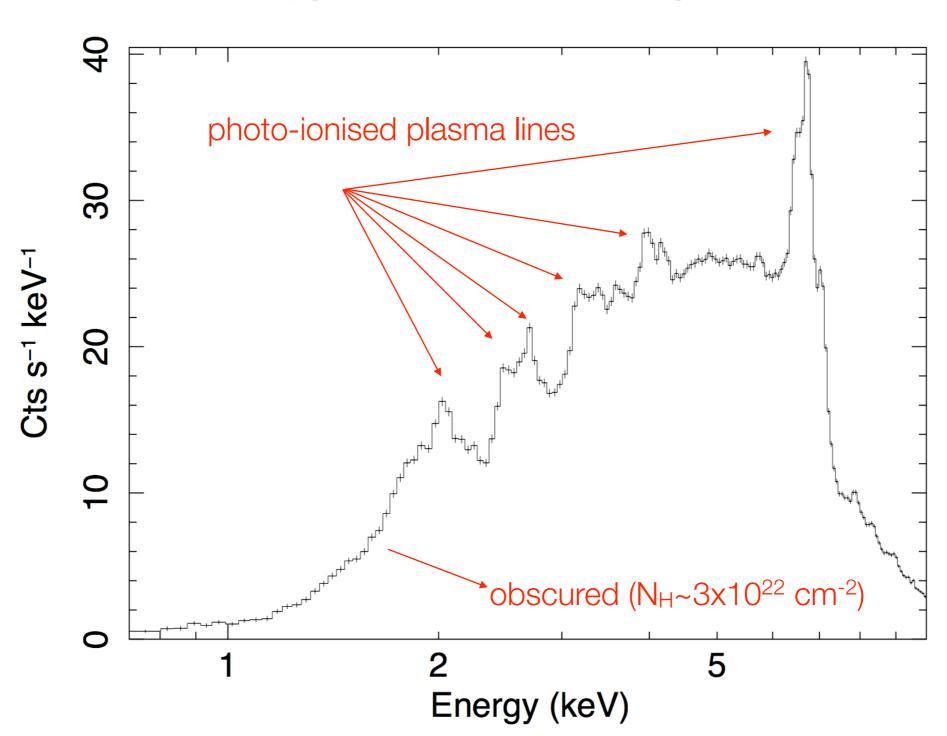
Background II. - the "soft excess" problem

(Guainazzi et al., 2014, XMM-SOC-USR-TN-0083)

- Systematic soft excess on obscured binaries in EPIC-pn Timing Mode
- Redistribution? Energy scale? Astrophysics (dust scattering, corona)?
- RGS simultaneous spectra inconclusive

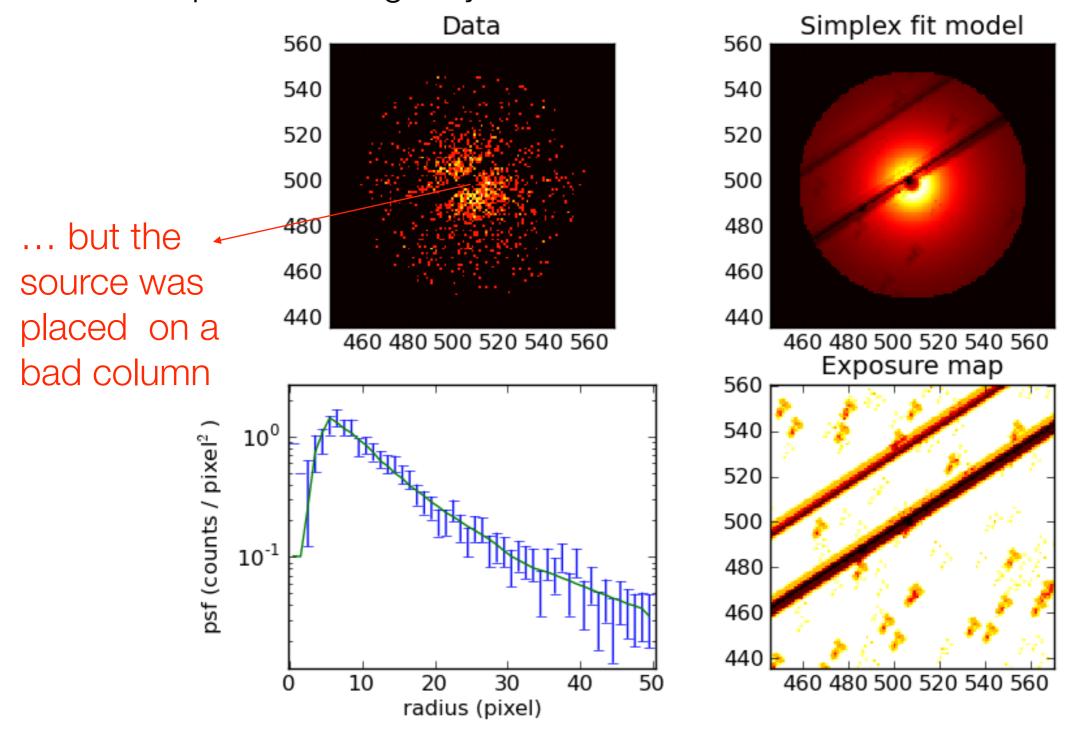


CygX-3 - EPIC-pn (Timing Mode)

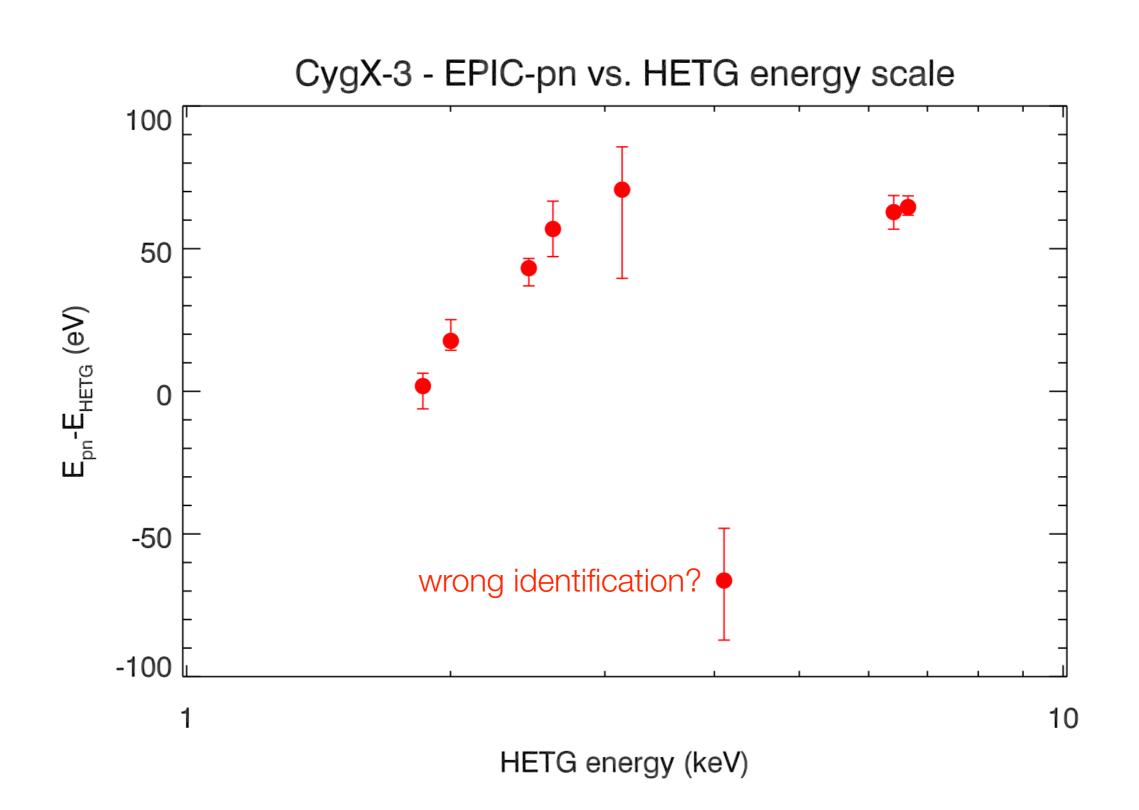


Interlude on Swift/XRT

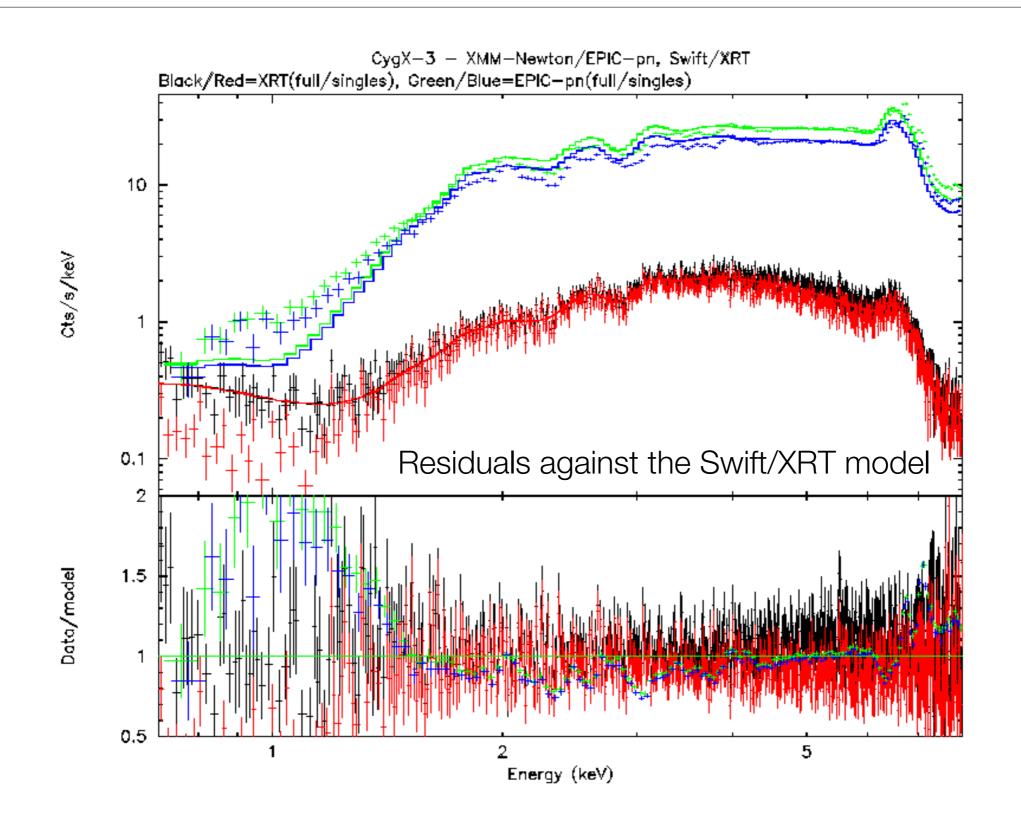
Experiment originally conceived to test redistribution in WT mode ...



Results I. - Energy scale



Results II. - soft excess



Summary

More calibration work for the EPIC-pn instrument team ⇒

the experiment has been a smashing success!