



## Report from Thermal SNR Working Group



*We have an Identity crisis:  
We changed our name*

## Line-Dominated Spectra Working Group



# Chandra X-Ray Observatory

CXC

## Line-Dominated Spectra Working Group

XMM-Newton RGS    Andy Pollock    (ESAC)

XMM-Newton MOS    Steve Sembay (Leicester)

Chandra ACIS        Larry David, Paul Plucinsky (SAO)

Suzaku XIS         Eric Miller (MIT)

Visitors             Jelle Kastr, Martin Stuhlinger, Keith Jahoda,  
Terry Gaetz



## Discussions

- our approach is dependent on the RGS data and analysis, concern is that is somewhat circular in that response models are adjusted based on E0102 fits and then we fit E0102 with the RGS-derived model
- need to fit sources with different spectra to build confidence in the adjusted response models, fits with sources like Zeta Pup, Comets, etc. have given some confidence
- ACIS-S3, XIS1, & Swift XRT have a similar energy dependence in their residuals compared to RGS, but HETG & XIS0 does not have such an energy dependence
- pileup is an issue for ACIS, but it is unlikely to explain the discrepancy with RGS
- O line data for a bare ACIS observation come from the S3 CCD but the O line data for the ACIS/HETG come from the S1 CCD



## ACTIONs

- 1) Add the higher order O7 and O8 and Ne9 and Ne10 – Andy, end of May
- 2) Incorporate spatial distribution from Chandra in RGS analysis – Andy, September
- 3) Fit version 1.9 model with new ACIS contaminant model – Paul, June
- 4) Temporal analysis with MOS, pn, RGS. Is there any evidence any evidence that E0102 is changing – Frank, Steve, & Andy
- 5) Systematic pileup study with Chandra – Joe, Paul September
- 6) Decide which weak lines are Fe and which are O & Ne – Andy, September
- 7) Pileup evaluation from other instruments, in particular RGS2 with slower readout - June
- 8) Review other LMC/SMC SNRs – Andy, May
- 9) Compare response on S1 (where HETG gets most of its data from E0102) and S3 – Paul, Joe June
- 10) Consider cal observations of Zeta Pup and TW Hydra - June