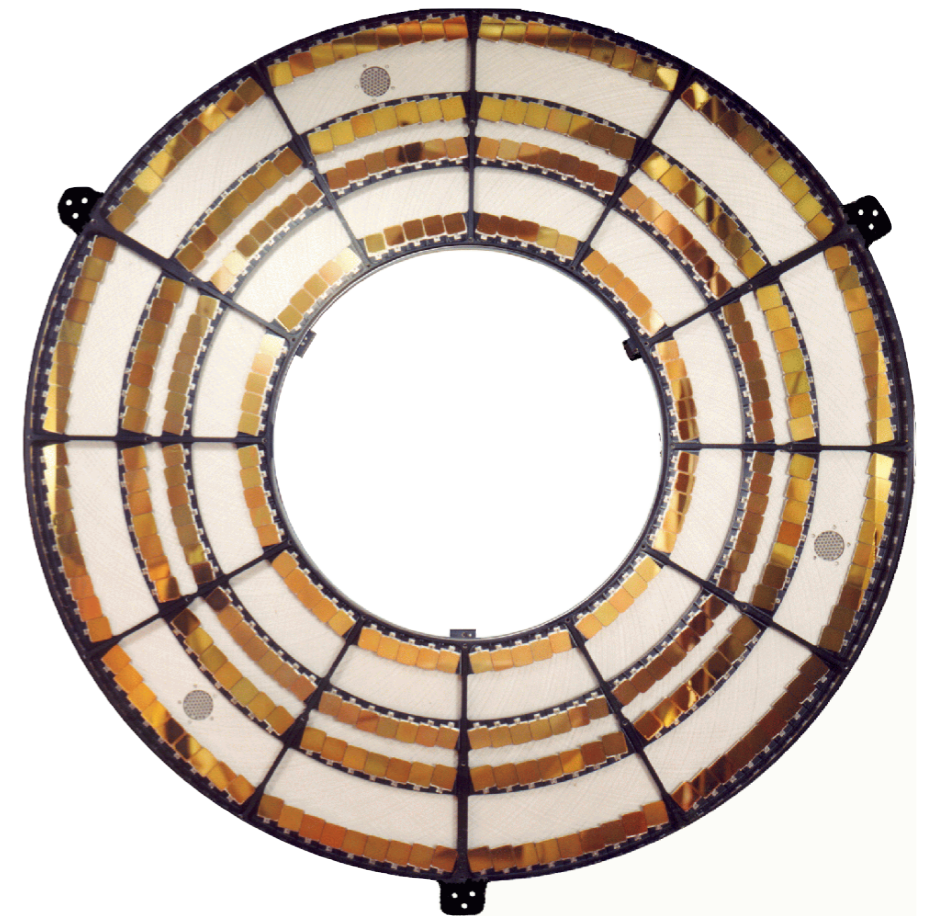




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# HETG - Status

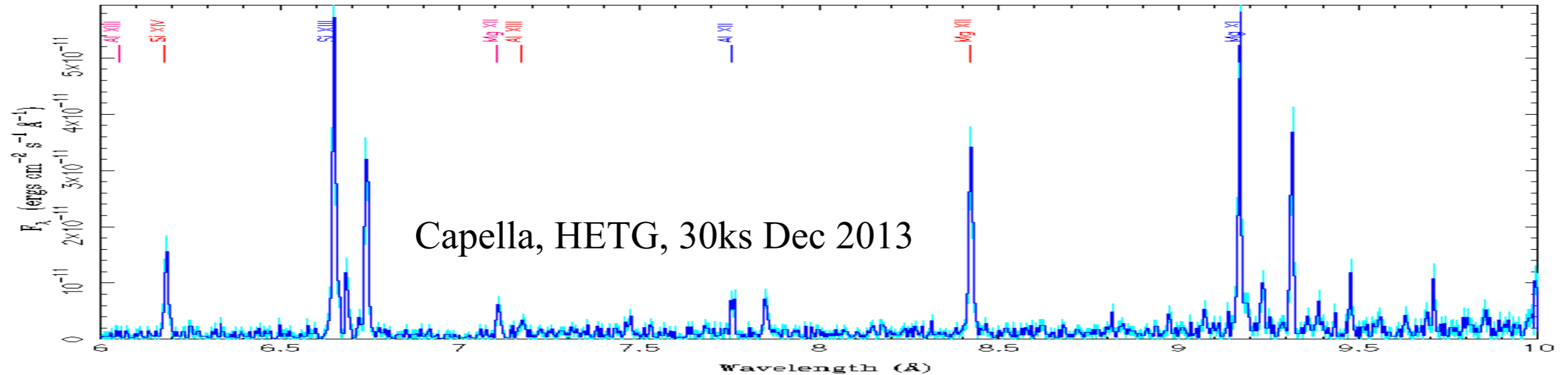
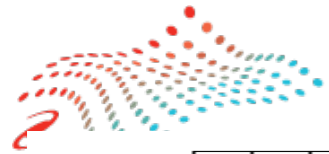
*Chandra* Quarterly Review No. 37  
23 April 2014



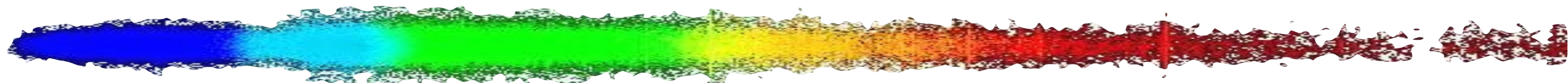
David Huenemoerder  
dph@space.mit.edu

HETG IPI: Prof. C.R. Canizares  
MIT Kavli Institute

# Ongoing HETG Team Activities Summary



- HETG Performance (Oct 2013 - March 2014)
  - 23 HETG sci. obs. on 12 targets;
  - 3 HETG Cal observations
  - Monitoring: FWHM streak, ongoing.
- HETG performance is nominal
- LETG Usage: 18 observations on 6 targets
- LETG Cal: 17 observations (10 ACIS-S, 6 HRC-S, 1 HRC-I)





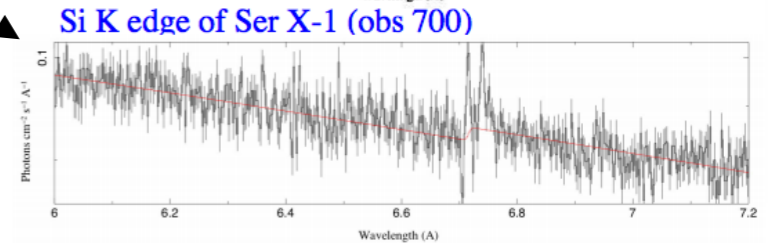
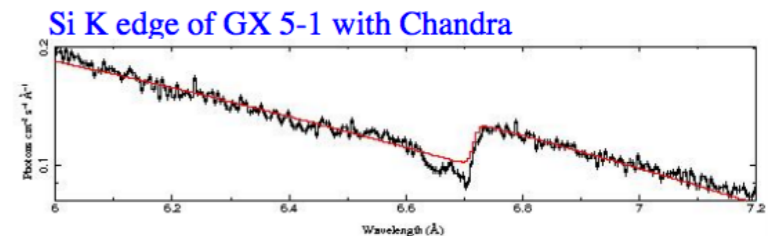
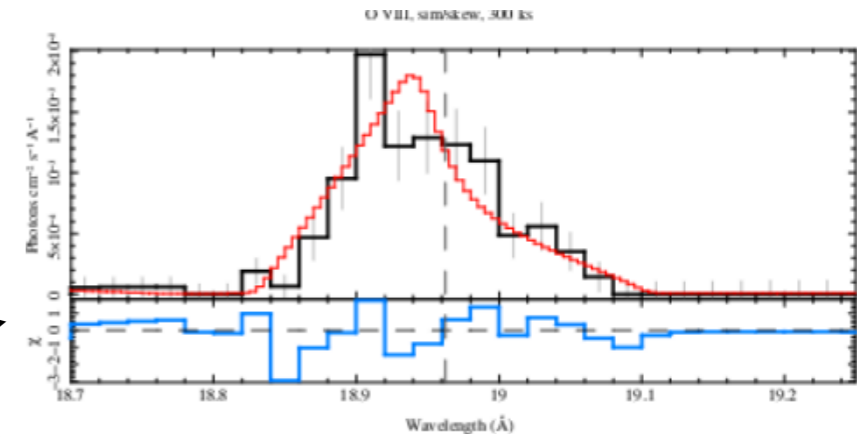
## GTO Science Program

### Cycle 15:

- Hot star: HD 206267 - 45 / 150 ks (add to Cycle 2's 74 ks)
- AGN: Mrk 766 345 ks (scheduled)
- LMXB: GX 3+1 90 ks (scheduled)
- XRB: LMC X-2 100 ks (scheduled)

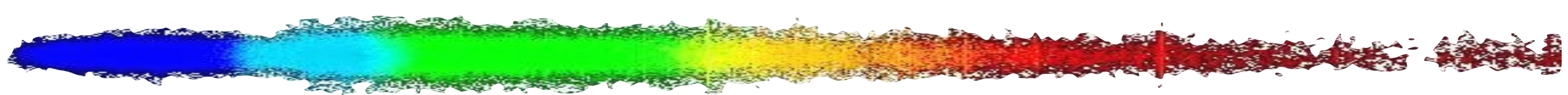
### Cycle 16 Plan:

- Hot star:  $\tau$  CMa: 210 ks (O9 II; stellar winds)
- XRB: 4U 1626-67 50 ks (ultra-compact LMXB pulsar)
- XRB: Ser X-1 135 ks (Si K edge study)
- XRB: 4U 0513-40 150 ks (ultra-compact)
- AGN: PDS 456 150 ks (QSO, warm absorber)
- NS: Terzan 5 X-2 200 ks (TOO)



### Postdoc status:

Victoria Grinberg - started Dec, 2013  
 Lia Corrales - starts early July 2014



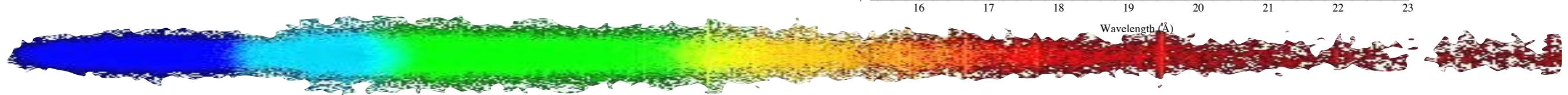
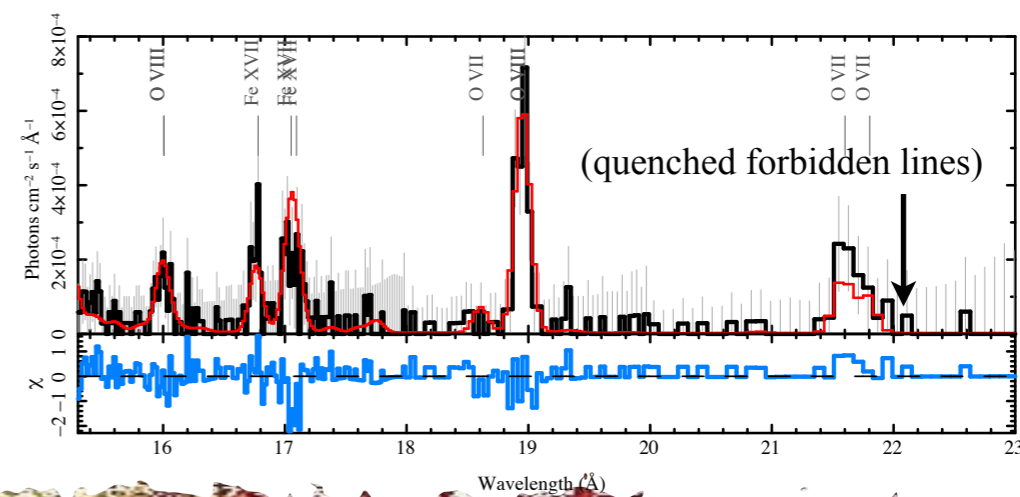
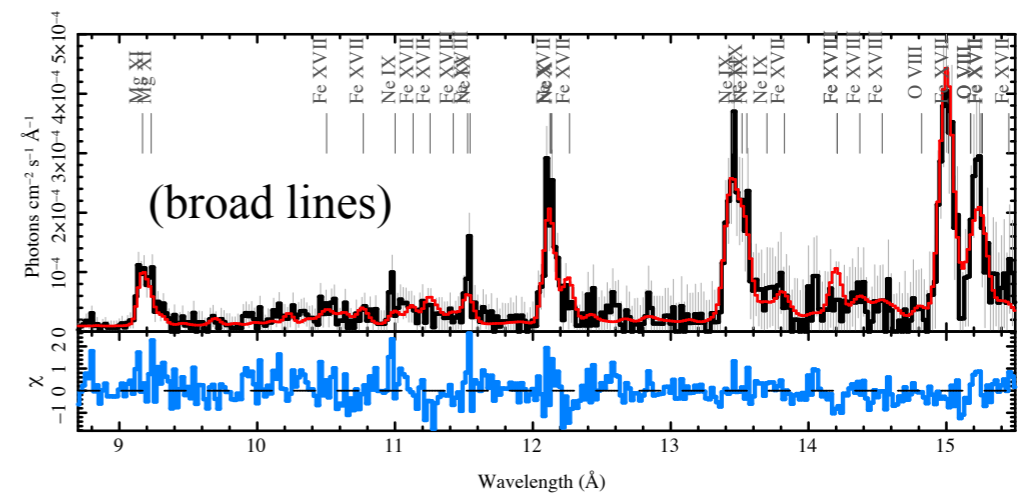
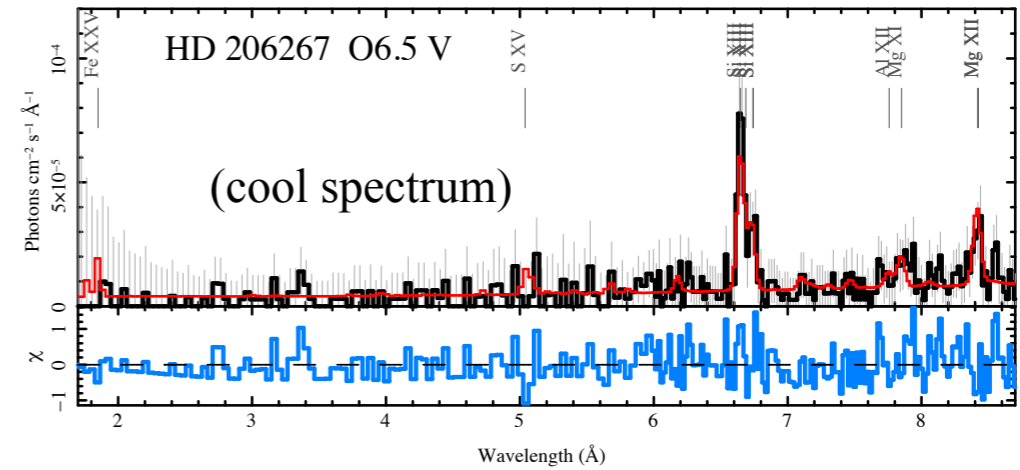


Hot stars, stellar winds, environments; continue to accumulate well-exposed spectra for wind studies.

HD 206267 (right)

$\tau$  CMa (scheduled)

119 ks, 100 to go... (GTO Cy2: 74 ks; Cy15: 45 ks)





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Text

# HETG Calibration/Science

## Calibration Properties of *Chandra* HETG Spectra Observed in CC-Mode (N. Schulz, ACIS Cal Team)

[http://exc.harvard.edu/cal/Acis/Cal\\_prods/ccmode/ccmode\\_final\\_doc03.pdf](http://exc.harvard.edu/cal/Acis/Cal_prods/ccmode/ccmode_final_doc03.pdf)

Short answer: it's not calibration, it's *science*!  
(or, haloes get dispersed and make analysis difficult).

