



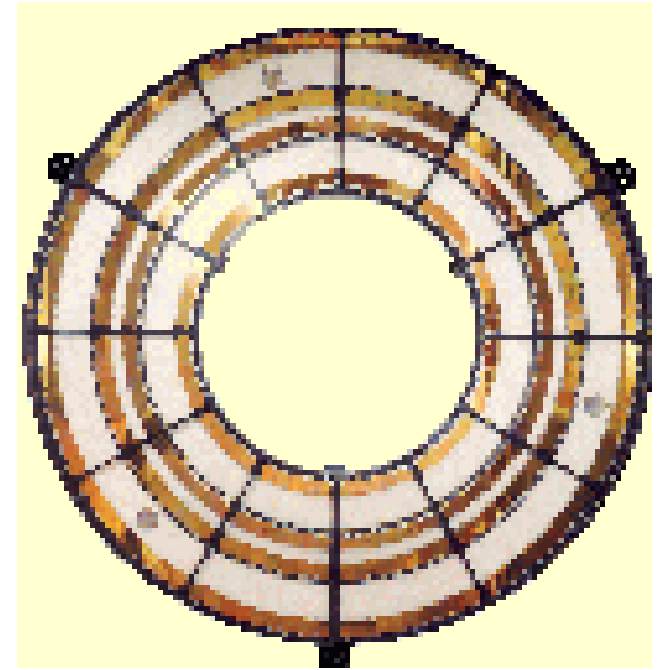
MIT Kavli Institute  
for Astrophysics  
and Space Research

## HETG - Status

*Chandra* Quarterly Review No. 36

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# Ongoing HETG Team Activities Summary

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## HETG Performance (April 2013 -- Sept 2013)

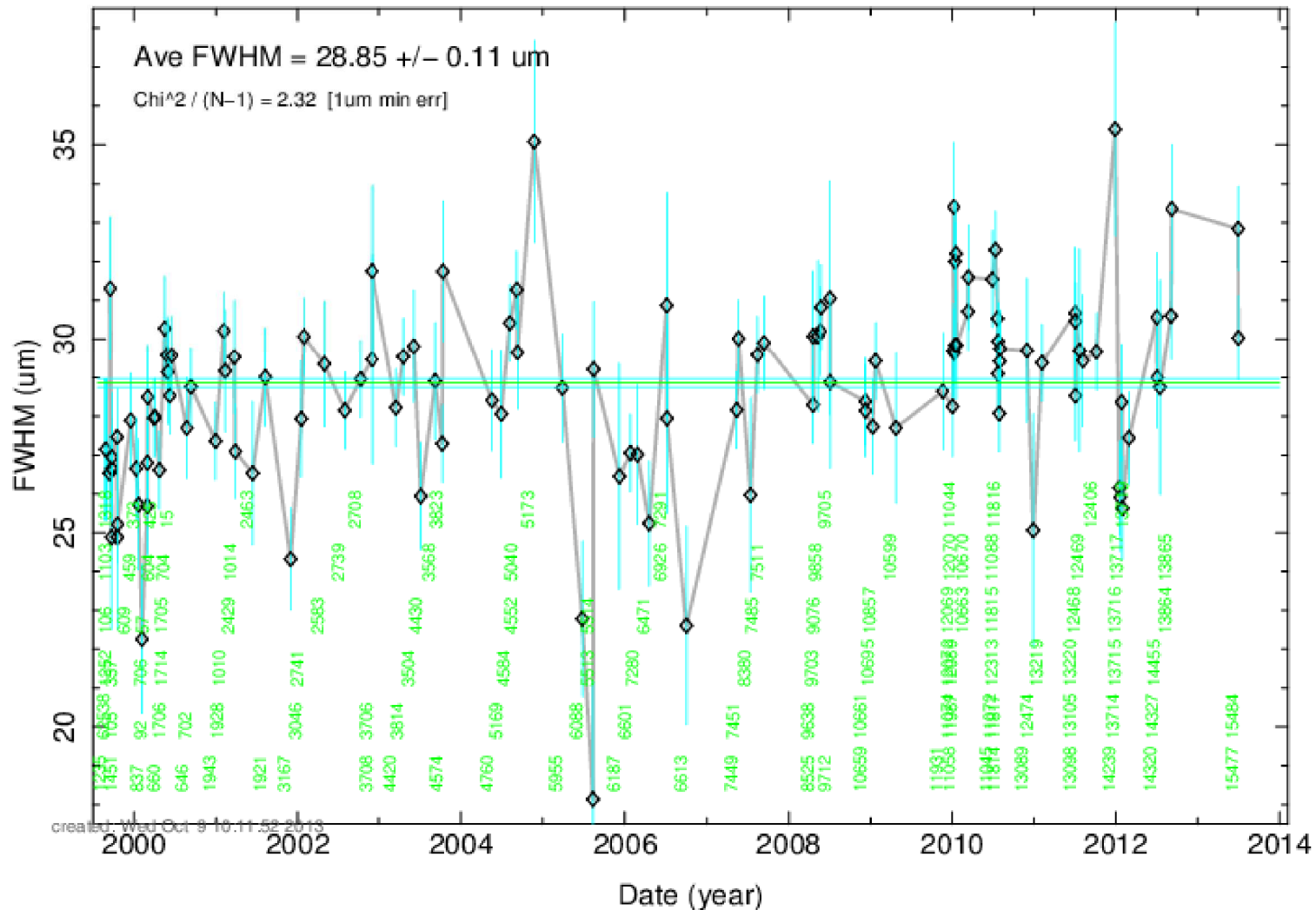
- \* 24 HETG obs.s on 11 Science targets and 1 Cal target.
  - Monitoring streak FWHM – remains steady (next slide)
  - 11/1: Cycle 14 HETG obs.s complete (except 1 w/Suzaku).
- \* HETG performance is nominal.
  
- \* LETG usage: 19 obsids on 5 Sci. & 3 Cal targets

## Support to CXC

- \* TGCat, <http://tgcat.mit.edu/> :
  - Ingestion and V&V; Improvements to interface (last slide).

# Ongoing: FWHM of Readout Streak vs Time

FWHM of HETG Streak Core vs Time (TGCat processed)



( [http://space.mit.edu/HETG/technotes/zo\\_1d/focus\\_trends.131009.html](http://space.mit.edu/HETG/technotes/zo_1d/focus_trends.131009.html) )



# Ongoing HETG Team Activities, cont.

## GTO Science Program

@ Cycle 14:

- ✓ Star: HD 79826 [65 ks]
  - 0.5 day eclipsing, a la “RS CVn”
- ✓ **M31**: XRB, SNR, AGN **11/1/13: complete**  
[~~taken 5/9-ths of 685 ks~~]

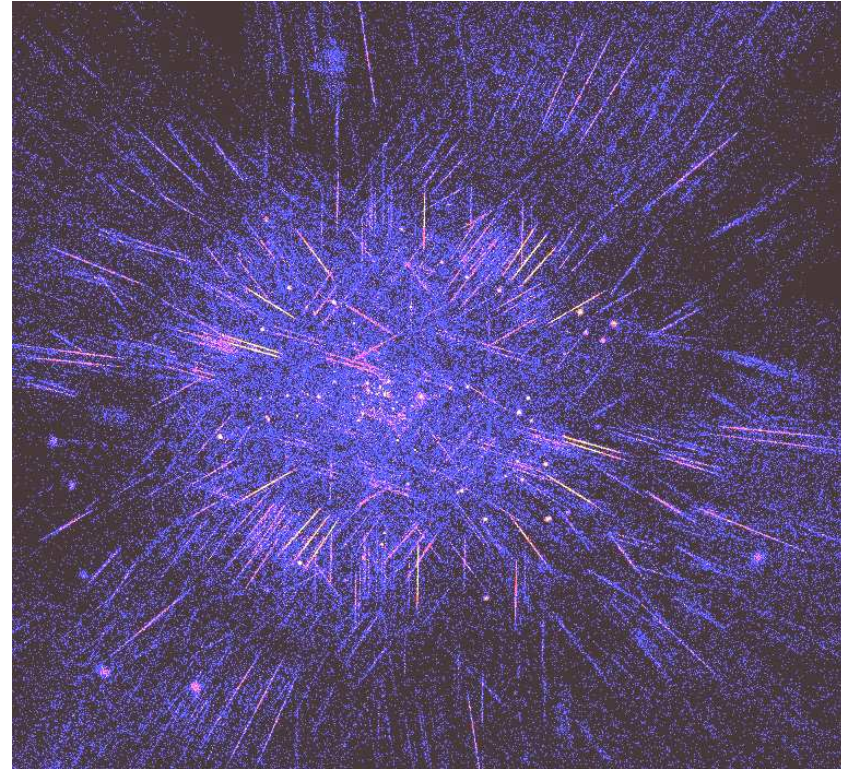
@ Cycle 15, Targets finalized:

- XRB: GX 3+1 (90ks), LMC X-2 (100ks)
- Star: HD 206267 (150ks)
- AGN: Mkn 766 (345ks)
- Pulsar IGR J17480-2446 (TOO, 10% prob., 150ks)  
(aka Terzan 5 X-2) X-ray burster w/slowly rotating NS.

*M31, 9 HETG Obs.s  
(H. Marshall)*

@ Postdoc status:

- One HETG postdoc, currently; Second hired, starting 1 Dec.





# TGCat: Web-plotting Improvements

Dave Huenemoerder  
HETG/CXC-MIT



- \* TGCat, <http://tgcate.mit.edu/>
- \* Web interface to HETG & LETG data / spectra
- \* High-resolution Legacy, e.g. for Astro-H users
- \* Online/quicklook plotting improvements

- Multiple plots w/same param.s - Show reference line locations

