



MIT Kavli Institute  
for Astrophysics  
and Space Research

# HETG - Status

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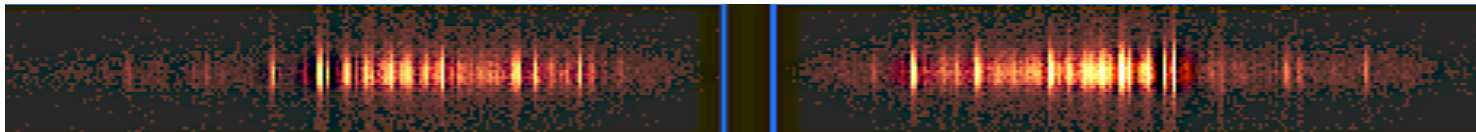
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MIT Kavli Institute



## Ongoing HETG Team Activities Summary

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- HETG Performance (Sept. 2010 -- Feb. 2011)
  - 19 HETG obsids on 10 Science + 2 Cal targets
    - \* Includes our GTO: SNR E0102.
  - HETG performance is nominal.
  - LETG usage: 11 obsids on 6 Science + 3 Cal targets
- Science Support to CXC
  - "TGCat: The Chandra Transmission Grating Data Catalog and Archive", Huenemoerder et al., 2011, AJ, accepted.
  - LETG/ACIS angle corrected in TGCat (100+ obsids.)



Capella  
obsid 8319

- Provided HETG article for the Chandra Newsletter.



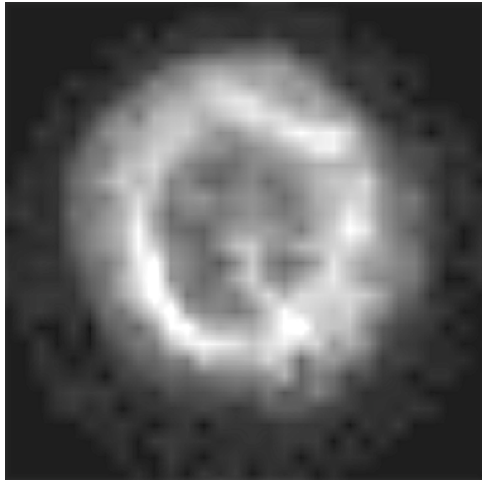
## Ongoing HETG Team Activities, cont.

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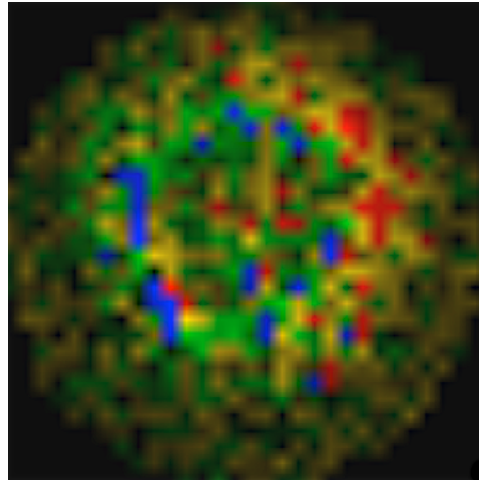
- GTO Science Program
  - Cycle 12:
    - XRB: GX 349+2 (120 ks, sched. July)
    - ✓ SNRs: SN 1987A (180 ks)
    - ✓ E0102 (150 ks)
    - AGN (Fe-K, warm abs.): Mkn 841 (200 ks, sched. April)
  - Cycle 13: GTO targets submitted (star, XRB, galaxy-for-400ks)
  - Postdoc search status:
    - \* Openings for both HETG postdocs. (There have been 12 PDs to date.)
    - \* AAS job register ad in Jan/Feb; candidates evaluated; offers in process.

# Science: E0102 to ~ 420 ks with HETG

1999.8

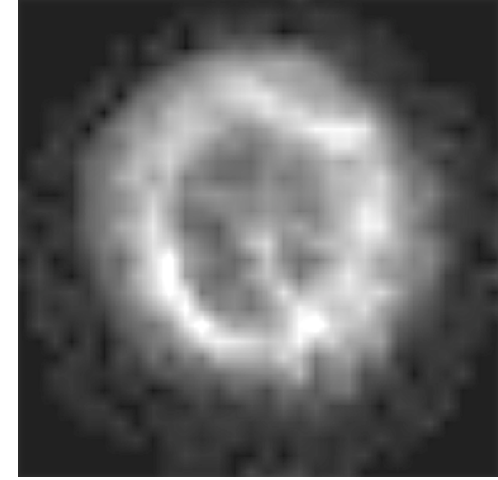


Difference Image (0.4-8 keV)



red, blue > 2 sigma

2011.1



➔ Cycle 12: Added 150 ks to existing 2 x 135 ks.

Complementary **roll angles**:

➔ Slowly evolving source (age ~ 2000 yr)

➔ Science: Looking for Fe lines, hints to date.

➔ [Cross-] Calibration: O VIII and O VII lines

