
Image an X-ray Jet Seen with Chandra

Basic Steps:

1. Find Chandra Observation of Quasar GB 1508+5714 in archive.
Obsid:
2. What mode was Chandra observing in:
3. Does data need to be reprocessed? Why or why not?
4. Create image of source. Is “jet” visible?
5. Is “jet” hard or soft?

Advanced Topics:

1. Is “jet” necessarily an extended source? Why?
2. What is the expected spectrum of a jet?
3. Extract source and “jet” spectrum and fit. Do they agree?

Suggested reading: “An X-Ray Jet Discovered by Chandra in the $z=4.3$ Radio-selected Quasar GB 1508+5714” by Siemiginowska et al. 2003, ApJL, 598, 15