

ASTR469: GBT Makeup Project!

Due 3/24

At the GBT we observed two continuum sources at 21 cm (in continuum) using the 40' telescope: 3C69 and 3C75. This is a transit telescope and can only move N-S – we observe objects only as they transit.

- 1) Tell me about the observed objects. What are they, what are their J2000 coordinates, and what are their flux densities at 21 cm?
- 1) If we began observations at 3:15pm on March 9, 2023, what was the LST?
- 2) What was the HA of the two objects when observations began?
- 3) What was the Solar time (clock time) for the two objects when they transited?
- 4) How far above the horizon were the two objects when they transited?
- 5) What is the resolution of the 40' telescope at 21 cm?
- 6) At this resolution, how long does a point source take to transit?