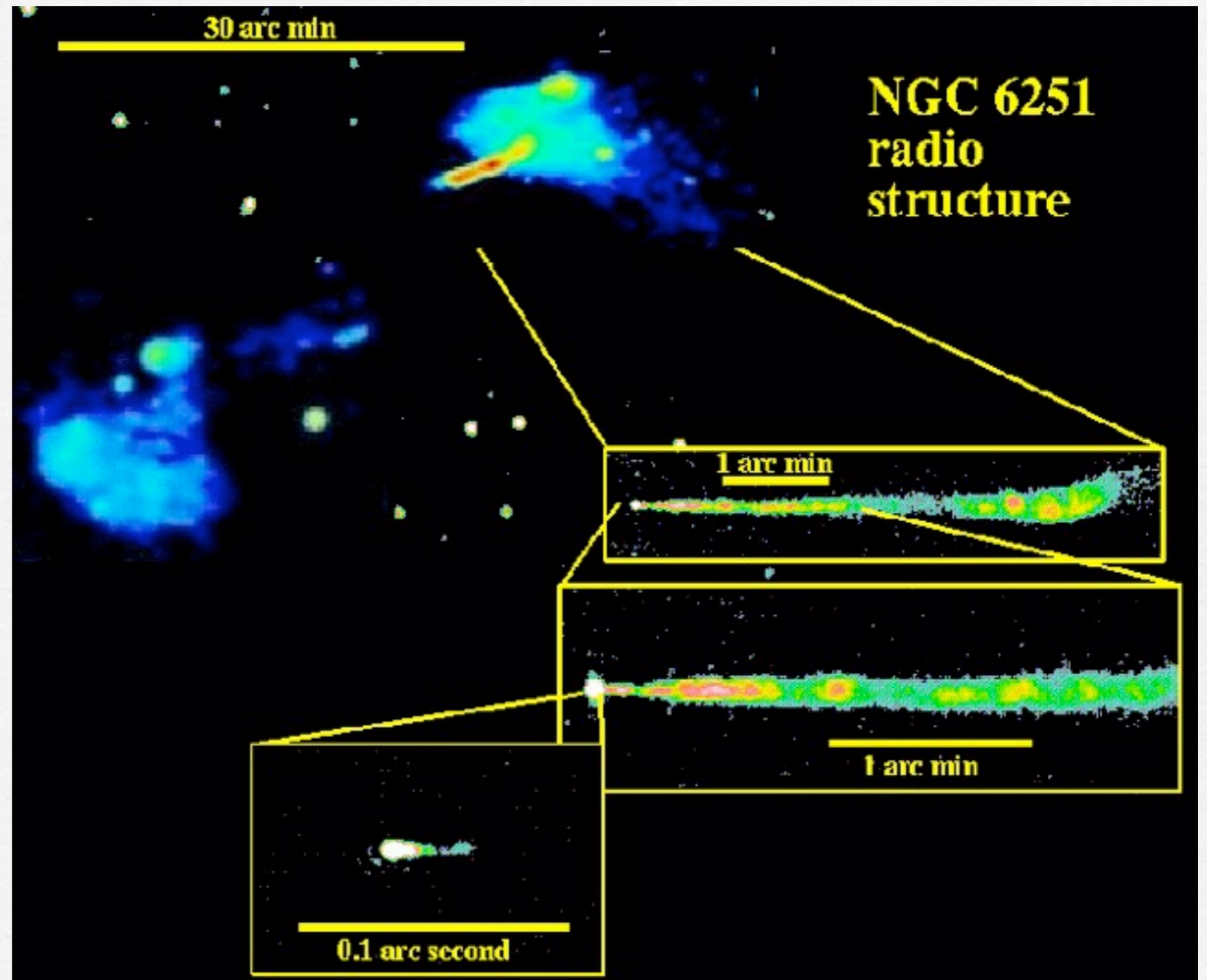


# NGC 6251

**FRI Radio Galaxy**

**$z=0.0244$**

**$N_h(\text{Gal})=5.5e20 \text{ cm}^{-2}$**   
(Kalberla et al. 2005)



**Reference:**

**Gliozzi et al. 2004, AA, 413, 144**

**Sambruna et al. 2004, AA, 414, 885**

**Evans, D., et al. 2005, MNRAS, 359, 363**

**Abdo et al. 2010, ApJ, 720, 912**

# 1. X-ray Spectral and Imaging Analysis

- XMM-Newton: Superposition of the X-ray and radio images (DS9) to individuate the regions (core, jet).

- Core, jet and nuclear environment : extraction of the spectrum and production of the .rmf and .arf files. Spectral analysis with XSPEC. Definition of the best data model: parameter uncertainties, confidence (68%, 90%, 99%) contour plots, flux and luminosity. Check of the iron line presence.

# 2. Gamma-ray analysis of Fermi data collected in 4 years of sky survey

- Spectral analysis (spectral slope and flux) and TS map (temporal bin of 1 year)

- Light curve (temporal bin of 6 months)

- Size of the gamma-ray source using the time variability (optional)