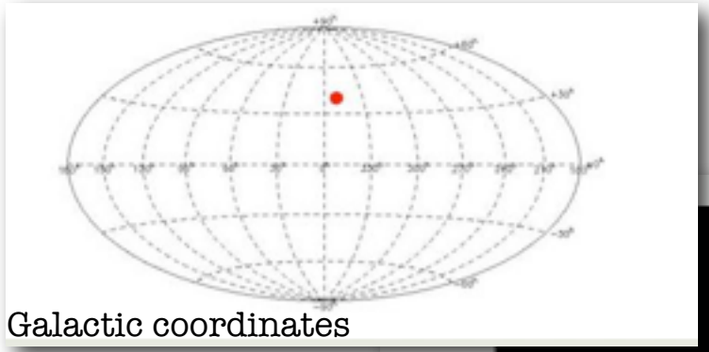
PKS 1510-089


Galactic coordinates

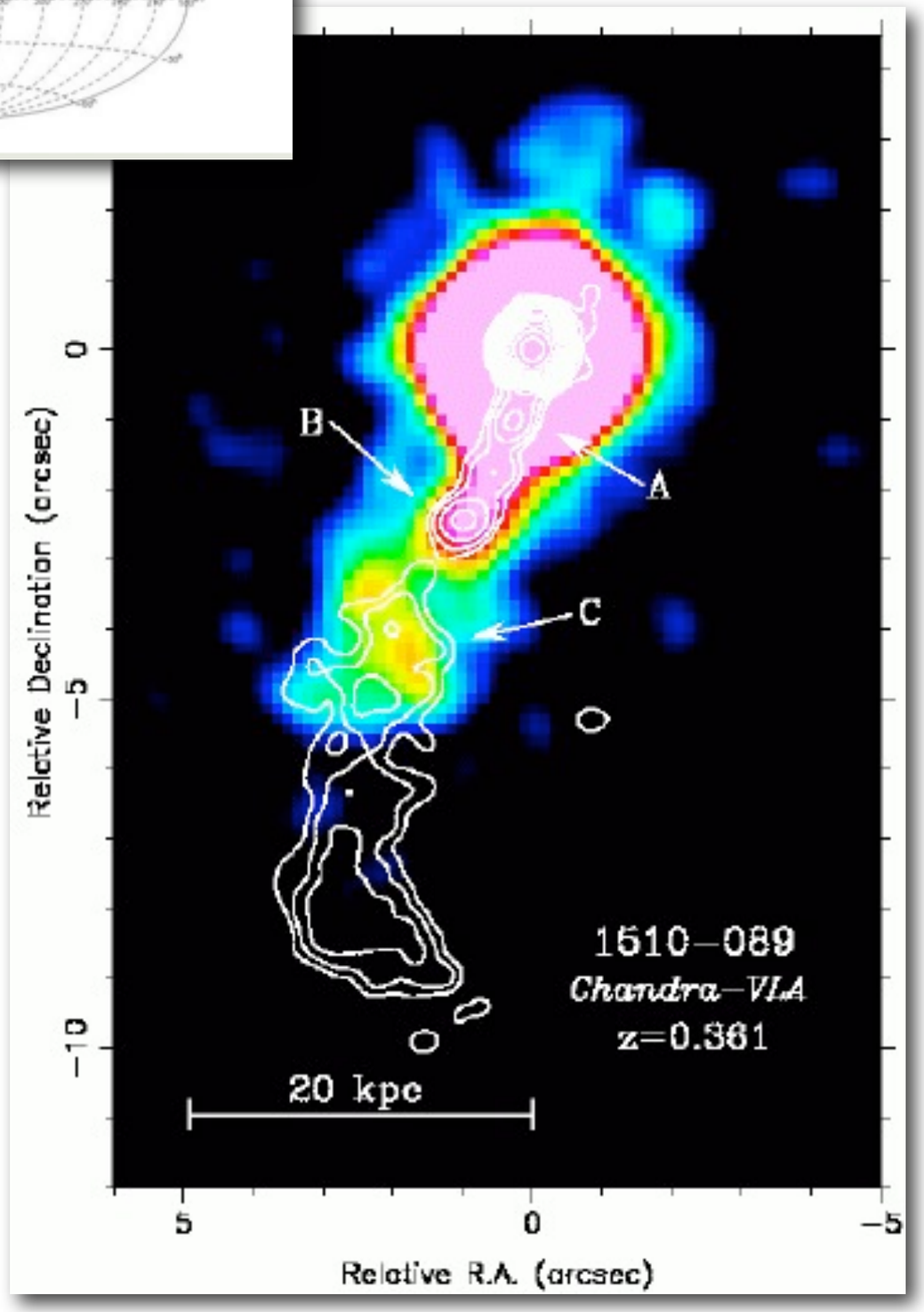
FSRQ

z=0.361

Nh(Gal)=6.99e20 cm-2
(Kalberla et al. 2005)

Apparent velocity: 1263 ± 27 μas/y ; 28.00 c
(Lister et al. 2013, AJ, 146, 120)

Reference:
Sambruna et al. 2004, ApJ, 608, 720



1. Spectral and Imaging Analysis

➡ Chandra: Superposition of the X-ray and radio images (DS9) to individuate the regions to be analyzed in the jet.

➡ Chandra: Knot B and C- extraction of the spectrum and production of the .rmf and .arf files (CIAO). Spectral analysis with XSPEC. Definition of the best data model: parameter uncertainties, confidence (68%, 90%, 99%) contour plots, flux and luminosity.

➡ Swift/XRT: Spectral analysis of the nucleus with XSPEC. Definition of the best data model: parameter uncertainties, confidence (68%, 90%, 99%) contour plots, flux and luminosity.

➡ AGILE: Spectral analysis (spectral slope and flux); time variability of the gamma-ray counterpart of PKS1510-089; TS map

➡Estimation of the size of the gamma-ray source

➡ Construction of the Spectral Energy Distribution (optional)