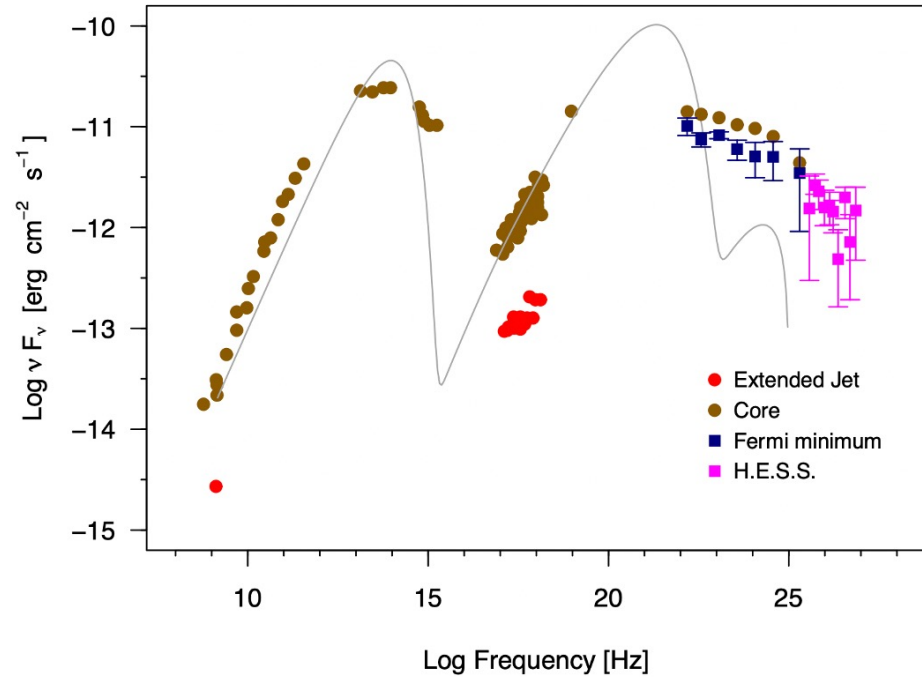


What is the origin of the VHE emission from AP Librae?



What is it about?

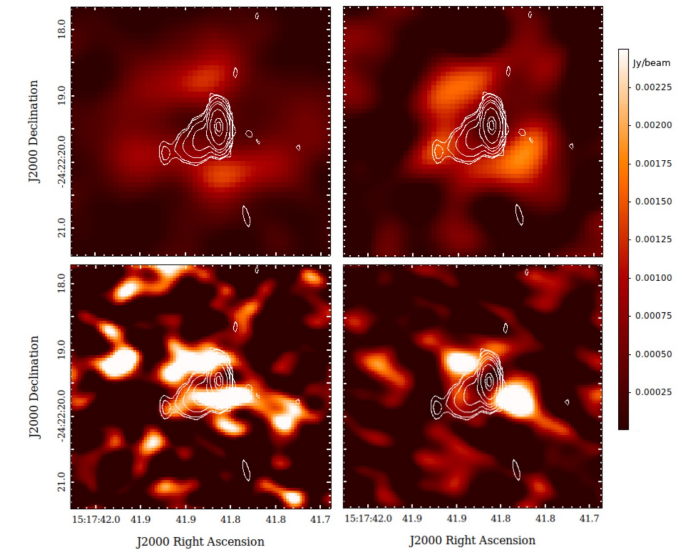
A very unusual LBL: 9 decade broad HE component.

Synchrotron self-Compton cannot produce TeV. Hervet+ (15), Zacharias+ (16), Petropoulou+ (16): very contrasting jet physics.

Agniva Roychowdhury, Eileen T. Meyer, Markos Georganopoulos, Peter Breiding, Maria Petropoulou

What did we do?

- Constrained the radio-IR synchrotron spectrum for the extended jet.
- Detected a large-scale torus in a BL Lac for the first time!
- Used a one-zone model for the spectral energy distribution (SED).



What did we find?

- IC/CMB model of Zacharias+ (2016) for the TeV ruled out.
- IC/CMB: GeV
- IC/torus: TeV in the >0.1 kpc jet.

Why is this interesting?

- Constraints on jet energetics and composition.
- Feasible constraints on origin *and* location of HE emission (X-ray to TeV) from AGN with dust lanes.
- RL-AGN unification paradigm: BL Lac with efficient accretion?

