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Boston University Blazar Group
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Multifrequency monitoring of 33 high power Blazar
(Radio, mm, sub-mm, optical, x-ray, gamma-ray (Fermi))

- mm: IRAM 30mt telescope, Sierra Nevada (Granada)
- optical: CALAR ALTO (2.2 mt) + other telescopes.

CTA102

VLBA at 5 GHz

- C80, a stationary feature located 140 pc from the core (Roca-Sogorb et al., 2010, Gomez et al., 2011)
- downstream C80, superluminal components
- C80, well described by numerical simulation (T.Cawthorne) of a conical recollimation shock with a cone angle of 10 degrees, a viewing angle of 16 degrees, and the upstream Lorentz factor $\gamma_c = 8.4$