The Compact Radio Jets of 41 γ-Ray Blazars: Statistics

Alan P. Marscher, Svetlana G. Marchenko, Jeremy Hallum, John R. Mattox (Boston University), Ann E. Wehrle, Steven D. Bloom (IPAC)

We have completed a multi-epoch study of the compact radio jets of 41 γ-ray bright blazars with the VLBA, mostly at 22 and 43 GHz. Compared with the general population of bright compact radio sources, the γ-ray blazars have considerably faster apparent superluminal motions. This indicates that the γ-rays are more highly beamed than is the radio emission, as expected either by the external Compton or the synchrotron self-Compton model. We will present other statistical properties of the sample.
This research was supported in part by NASA through several CGRO guest investigator grants.