

Resolving the Innermost Jet Region of Radio Quasars 3C454.3 and OJ287

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Blazars are among the most powerful and variable known astrophysical objects. The very long baseline interferometry (VLBI) technique at short mm-wavelengths (mm-VLBI) allows us to look deeply into the heart of these compact objects and probe the physical processes that occur in the vicinity of the central engine. In this talk, we will present new results from (i) a kinematic and polarization study of the quasar 3C454.3 over 10 years, and (ii) new quasi-simultaneous multi-frequency 15-86 GHz VLBI imaging observations of OJ287, which were performed contemporaneous to RadioAstron observations at K-band. The millimeter-wave data of 3C454.3 reveal the appearance and propagation of new jet components. The results will be further discussed in this talk.