S29a High Resolution VSOP Observations of PKS 1921-293

Edwards, P.G. (ISAS), Lovell, J.E.J., Shen, Z.-Q. (Shangahi)

We present the first high resolution HALCA images at 1.6 GHz and 5 GHz of the southern blazar PKS 1921–293 (OV–236; z=0.352). Our observations show that the source posseses a core-jet structure similar to that seen with ground-only VLBI observations at centimeter wavelengths. However, the addition of data from HALCA has allowed us to clearly identify the core which we find to be resolved with a brightness temperature in excess of 10^{12} K. Despite the strong, compact nature of this radio source it has not been detected at 100 MeV gamma-ray energies by EGRET, and we consider why this may be so.