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Observations at 408 MHz of radio sources from the 4C catalogue. IV. Declination range 20° to 0°. By R. E. B. Munro

Abstract. Radio positions and flux densities measured at 408 MHz with the Molonglo radio telescope are given for 1392 sources from the Fourth Cambridge catalogue in the declination range 20° to 0°. The mean spectral indices between 178 and 408 MHz are also considered in the light of these improved flux densities.

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Accurate flux densities at 5009 MHz of 1007 radio sources. By A. J. Shimmins and J. G. Bolton

Abstract. Accurate flux densities at 5009 MHz for 1007 radio sources are presented here together with the measured positions at this frequency. The sources were selected between declinations +27° and -90° from the Parkes 408 and 2700 MHz catalogues, but are predominantly south of declination -33°. The accuracy of the peak flux density is 0.02 f.u. (r.m.s.) due to system noise and confusion plus 3.0% of the flux density due to uncertainty in receiver sensitivity and dish efficiency. Because of the small beamwidth of 4'.05 arc, some of the sources are partly resolved, and size correction factors have been calculated from either known source structure or measured beamwidths. The estimated errors in the positions are approximately 15" arc in both coordinates for sources stronger than 1 f.u., increasing to 20" arc for the weaker sources.

