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Accurate spectra of 300 radio sources from the Parkes catalogue: Observational results. *Beverley J. Wills*

Abstract. Accurate measurements of relative flux density have been made between frequencies of 468 and 5009 MHz for 300 radio sources selected from the Parkes catalogue. The observations, their analysis and accuracy are described, and the flux densities presented together with their errors. Excluding the uncertainties in scaling these flux densities to an absolute system, r.m.s. errors vary from 0.24 Jy and 2.4% at 635 MHz to 1.8% at 2700 MHz; uncertainties in 'absolute' scaling are thought to be about 5%. The present flux densities are compared with accurate values published elsewhere. The data have been combined with other published flux densities between 10 and 10000 MHz to derive spectra, which are presented graphically. Some sources whose spectra may be useful for flux density calibration are noted.

