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Miyun 232 MHz Survey I —

fields centred at: $\alpha : 00^h41^m, \delta : 41^\circ12'$ and $\alpha : 07^h00^m, \delta : 35^\circ00'$

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A new meter-wave survey of sky region north of declination $+30^\circ$ is carried out with the Miyun 232 MHz Synthesis Radio Telescope(MSRT). The instrument, observation and method of data reduction are briefly described in this paper. A preliminary catalogue, first of a series, for two $8^\circ \times 8^\circ$ regions centred respectively at $\alpha : 00^h41^m, \delta : 41^\circ12'$ and $\alpha : 07^h00^m, \delta : 35^\circ00'$ is presented. On the average 4 - 5 sources per square degree are recorded with position accuracy of $5'' / S(\text{Jy})$. BGPW scale is adopted for the flux density calibration (Baars, et al., 1977). The accuracy of flux determination is limited by background fluctuation which is about 30 mJy. The catalogue is complete for sources with flux larger than 0.25 Jy. The total number of sources listed in the the paper amounts to 687.

Several extended sources, sources with convex spectra, and one GPS source were found. Spectra of sources with flux larger than 0.5 Jy were also given.