

Solar Radio Fine Structures Detected with Super-High Temporal Resolution and the Magnetic Field in Low Corona

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Since October 2004 some radio fine structures were detected with super-high temporal resolution of 1.25 ms during solar activities in the frequency range of 1.10-1.34 GHz by spectrometers at Huairou, Beijing. They would reflect energetic particle process in more short time scale in the low corona. For the selected events we report the observational characteristics of those fine structures in detail. We discuss the relevant space scale, the brightness temperature and the magnetic field strength at the emission source region.