



New results obtained from the solar radio spectrometer in decimeter wavelength with super-high temporal resolution

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Some new results have been observed with the solar decimeter spectrometer with a new observing mode at NAOC, CAS. The temporal resolution and frequency range used in the new observing mode are 1.25 msec and 1.10 λ 1.34 GHz, respectively, while they are 5 msec and 1.10 λ 2.06 GHz, respectively, used in the standard observing mode. The spectral resolution is 4 MHz in both observing modes. Some unexpected super-fine structures in narrowband type III bursts (namely α° blips α s), zebra patterns, and fiber bursts, and some new fine structures have been found. The new results will lead to deeply understand energy release and transfer in low corona during solar flares.