



The Imaging-Spectroscopy Analysis of a Solar Radio Burst Event by MUSER

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The Mingantu Spectral Radioheliograph (MUSER) is a solar-dedicated interferometric array with a frequency range from 400MHz to 15 GHz. There are two arrays of 40 4.5m antennas covering 400MHz -2 GHz, and 60 2m antennas covering 2 - 15 GHz which have been established in Mingantu Town, Innermongolia of China. The burst event on Dec 17, 2014 for a M8.7 flare was recorded by MUSER-I in 400MHz-2GHz. The flare was with circular ribbons over multiple-scale loop structures as revealed by AIA/SDO. There were groups of small-scale low-lying arcades or loops, intermediate dome-like structure, and the large-scale loops as shown in EUV images involved in this flare process. The multi-frequency images in decimeter wave ranges of the burst process by MUSER-I are obtained and analyzed.