

Analysis of solar radio burst events

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Radio emission from solar flares and other solar activities offers lots of information about energy release, plasma heating, particle acceleration and particle transport in magnetized plasmas. We have calculated the maps of total intensities and circular polarization of solar bursts using a simple model for the ARs magnetic field. First of all coronal magnetic extrapolation was applied to calculate the coronal magnetic field. The calculations are in agreement of the same AR obtained from radio images. We gave the parameter of our model to get the physical conditions. The magnetic field and electron density during the burst process are also provided based on our analysis.