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Room: Poster

Polarization Characteristics of Jovian S-bursts interacting with Jovian Decametric Narrow band emissions

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Occasionally spectra of S-bursts of Jovian decametric radiation have been observed with Narrow band emissions(Nemissions) indicating intimate relationship; that is,S-bursts spectra merge with N-emissions spectra often affecting on the Nemissions associated with characteristic frequency variations. With a short period of time before the merging of an S-burst, the second trend of the negative frequency drift is generated with slower drift rate; the new trend is called trailing edge. Analyses of the polarization eliminating contamination effects from the ground reflection, show the different axial ratios between the Sburst and the group of N-emissions (including Trailing edge). The result suggests the radiation mechanism of S-burst is different from that of N-emission and Trailing edge.