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Room: Poster

Comparison of data of the decameter emissions associated with SL-9 comet dusts, with atmospherics.

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Observations of the Jovian decametric radiation and atmospherics in decameter range were made to convirm the difference between atmospherics and the comet bursts observed in the periods of SL-9 dust passsage through the Jovian magnetosphere in July 1994. There are apparent signatures which distinguish the SL-9 bursts from the atmospherics: i) there are apparent correlations between the level and the frequency of the pulses in the thunder storm bursts while no such correlation was found in SL-9 bursts, ii) the single frequency interferometer data of thunder storms show very rapid oscillation within a single burst while a single sign (plus or minus) was selected in the pulses of SL-9 bursts, iii) no pertinent thunder storm of simultaneous activity was found in the case of SL-9 bursts.