

2017-2018 Space Physics Seminar Series

Characterizing Jupiter's Auroral Acceleration Region

At Jupiter and other magnetized planets, auroral emissions are signatures of particle acceleration above the planetary atmosphere. Juno is currently exploring Jupiter's auroral acceleration region; However, it's low altitude coverage is limited to the dusk side of the magnetosphere. We use HST images of Jupiter's aurora using the Knight Relation and Bayesian analysis to infer the characteristics of Jupiter's auroral acceleration region i.e. initial energy and density of precipitating electrons, and the location of acceleration region. We will compare our findings to Juno's initial results.

Thursday, April 5 at 4:00PM
725 Commonwealth Avenue
Room 502



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