

2017-2018 Space Physics Seminar Series

Lessons Learned from the First Extra-Terrestrial UV Echelle

The Mars orbiting NASA MAVEN mission carries a spectrograph that includes a high-resolution echelle grating. The echelle has been designed specifically to resolve and measure the deuterium and hydrogen Lyman- α emissions in the atmosphere of Mars. Observations from this instrument channel are used to derive physical properties of D and H and to get the relative abundance of these species – an important metric for understanding water escape. Highlights of how echelle observations have illuminated our understanding of multi-scale variability in D and H and atmospheric dynamics at Mars will be presented.

Thursday, April 12 at 4:00PM
725 Commonwealth Avenue
Room 502



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