

Physics Department Seminar

3pm February 9, 2018, Physical Sciences room 105

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The Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI)

A goal of NASA and the Department of Defense is to understand the effects of Earth and space weather on the thermosphere. One of NASA's latest satellites, the Ionospheric Connection Explorer (ICON), will soon be launched in hopes of completing this task. The Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI) instrument, designed and constructed by the Naval Research Laboratory, will soon be launched as a part of NASA's ICON mission. The purpose of this instrument is make accurate



measurements of temperature and wind profiles of the ionosphere. In my talk I will discuss some of the scientific concepts and designs that will make these measurements possible.