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The Atmosphere-Space Interactions Monitor (ASIM) for the International Space Station

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The Atmosphere-Space Interactions Monitor (ASIM) is an instrument suite for one of the external platforms on the International Space Station. ASIM will study electrical processes in the upper atmosphere above severe thunderstorms: the recently discovered sprites, jets, elves and terrestrial gamma-ray flashes. The instruments are 3 modules of the Miniature Multi-spectral Imaging Array (MMIA) each housing 2 TV frame-rate optical cameras and 2 photometers, and the Miniature X- and Gamma-ray Sensor (MXGS). Two MMIA modules view towards the limb. The MXGS and one MMIA module view towards the nadir. ASIM is currently in Phase A. The talk will present the mission objectives, the instrumentation, and the opportunities for collaboration.