



## **Backscattering of solar wind from the hermean surface: expected observations at the example of a high solar wind flux event at the moon.**

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On 24. June 2009 the solar wind flux and density at the Moon reached for several hours values comparable to average solar wind conditions expected at Mercury. During this event, the Chandrayaan-1 Energetic Neutrals Analyzer (CENA) on board of the Indian Chandrayaan-1 spacecraft observed the solar wind back-scattered from the lunar surface as energetic neutral atoms. The Mercury Magnetospheric Orbiter (MMO), part of the Bepi Colombo mission, will carry an identical instrument, the Energetic Neutrals Analyzer (ENA) to measure energetic neutral atoms in the hermean environment. The lunar event serves as a prototype for observations to be made by ENA on Mercury. We analyze the lunar event and show predicted ENA measurements for average hermean conditions.