

First Lunar Results from D-CIXS, the Compact X-ray Spectrometer on the ESA SMART-1 Mission

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- The ESA SMART-1 mission arrived in operational orbit around the Moon successfully on 27 Feb 2005.
- A major payload element is D-CIXS, a Compact X-ray Spectrometer which will provide high quality spectroscopic mapping of the Lunar surface. At the same time it will demonstrate a radically novel approach to building this type of instrument. We aim to achieve ground breaking science within a resource envelope far smaller than previously thought possible for this type of instrument.
- It consists of a high throughput spectrometer, which will perform spatially localised X-ray fluorescence spectroscopy, and a solar monitor to provide the calibration of the illumination necessary to produce global map of absolute Lunar elemental abundances.
- The instrument has been turned on and is working well.
- We will present data from the cruise phase and first Lunar results.

Keywords: Moon; X-ray spectrometer