Geophysical Research Abstracts, Vol. 7, 09144, 2005 SRef-ID: 1607-7962/gra/EGU05-A-09144

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First D-CIXS Lunar Results

M. Grande (1), B. J. Kellett (1) and the D-CIXS Team

(1) Rutherford Appleton Laboratory, Chilton, Didcot, Oxfordshire, OX11 0QX, UK (m.grande@rl.ac.uk)

The ESA SMART-1 mission has arrived at the Moon and recently began Ddata taking. A major payload element is D-CIXS, a Compact X-ray Spectrometer which will provide high quality spectro-scopic mapping of the Lunar surface. We will present first results. D-CIXS demonstrates a capability to achieve ground breaking science within a resource envelope far smaller than previously thought possible for this type of instrument, using new technology which does not require cold running, with its associated overheads to the spacecraft. It consists of a high throughput spectrometer, which will perform spatially localised X-ray fluorescence spec-troscopy, and a solar monitor to provide the calibration of the illumination necessary to produce global map of absolute Lunar elemental abundances.