



## **The in-flight calibrations of the X-ray Solar Monitor (XSM) on board the SMART-1**

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The operation, performance, and in-flight calibrations of the X-ray Solar Monitor (XSM, on-board the ESA SMART-1 satellite) are presented. The basic method of deriving ARF (Ancillary Response File) and RMF (Redistribution Matrix File) are described. The calculation of the XSM effective area with errors is presented. These errors determine the confidence of derived flux levels obtained from spectral fitting. The evolution of the energy resolution as a function of time is also studied. The first data of solar flare spectra including highly ionized Fe-lines are also introduced.