Electric check and performance evaluation of X-ray spectrometer on-board MUSES-C spacecraft

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The observation of X-ray fluorescence from planets is useful way to get the information of their surfaces. MUSES-C and SELENE spacecrafts have X-ray CCD based X-ray fluorescence spectrometer (XRS). X-ray CCD is recently been developed, and MUSES-C is the first mission which uses X-ray CCD as X-ray fluorescence detector. It is known that the energy resolution of X-ray CCD is changed by temperature, driving-voltages, and driving-clocks. The goal of this study is to calibrate their parameters. We report here the configuration of the experiment and the progress of its results.