

## Current status of development of the X-ray fluorescence spectrometer onboard SELENE and MUSES-C

Manabu Kato[1], # Tatsuaki Okada[2], Yasuyuki Yamashita[3], Kei Shirai[1], Yukio Yamamoto[1], Eiji Masuda[1], Satomi Ito[1], XRS Team Okada Tatsuaki

[1] ISAS, [2] Div. Planet Sci., ISAS, [3] CAST, ISAS

We have been developing X-ray fluorescence spectrometer (XRS) onboard SELENE and MUSES-C. To improve its performance of elemental analysis, array of charge-coupled devices is installed on the XRS. Thermal design to keep the CCD at preferable temperature (< 230K) and methods of driving and data acquisition of CCD have been among most critical points of development. We have examined them with good performance through S310-28 experiment and the interface and performance tests with proto- and flight-models for MUSES-C. We have just finished the system mechanical and electrical interface tests for the XRS flight-model of MUSES-C as well as preparing for environmental tests for SELENE. We present the current status of development of the XRS.