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Development of X-ray CCD based XRS onboard spacecraft : Software development for on-board computer on MUSES-C

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On-Board Computer, OBC, will be used to control X-ray fluorescence spectrometer, XRS, on MUSES-C, a sample return mission from asteroid 1989ML, and SELENE, a lunar polar orbiter mission. XRS on board MUSES-C mission shares the same OBC with near infrared spectrometer, NIRS, and this system including these instruments is called NIX. The operations of NIX, such as 'power on', are implemented by sending command packets through the Data Handling Unit (DHU). Obtained data, or the housekeeping data of instruments and so on, are sent to DHU as telemetry packets. We report here the overview of NIX, and the command-telemetry system through the progress with the development of software.