

## Elemental mapping of the Moon by XRS onboard SELENE

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

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

Major elemental composition of lunar surface is quantitatively determinable by remote x-ray fluorescence spectrometry. We have planned a global elemental mapping except for polar regions with the XRS instrument onboard the SELENE orbiter. XRS is based on the charge-coupled devices with high energy resolution, ultra-thin beryllium window of 100cm<sup>2</sup> detection area, and 3.5deg FOV. We simulated the XRS observation along the polar orbit of 100km altitude and discuss the achievable spatial resolution.