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## Study of the distribution of thorium on the lunar farside

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The abundance and the distribution of thorium on the lunar farside are important to investigate the lunar magma ocean and the influence of the Imbrium thorium-rich ejecta on the farside. The low thorium abundance on the lunar farside, typically less than 1 ppm, resulted in weak gamma-ray fluxes and thus it becomes relatively difficult to obtain the thorium map on the lunar farside by gamma-ray remote sensing method. We have analyzed the thorium distribution on the lunar farside by using Kaguya gamma-ray spectrometer (KGRS) that has the highest sensitivity among lunar gamma-ray spectrometers to date. In the presentation, we will mention the characteristics of thorium distribution on the lunar farside.

Keywords: gamma-ray spectrometer, Kaguya, SELENE, Thorium, lunar farside