

PPS024-17

会場:103

時間:5月23日 10:45-11:00

## 月裏側のトリウム分布に関する考察 Study of the distribution of thorium on the lunar farside

小林 進悟<sup>1\*</sup>, 唐牛讓<sup>2</sup>, 諸田智克<sup>1</sup>, 武田弘<sup>3</sup>, 長谷部信行<sup>2</sup>, 晴山慎<sup>1</sup>, 小林正規<sup>4</sup>, 柴村英道<sup>5</sup>, 石原吉明<sup>6</sup>  
Shingo Kobayashi<sup>1\*</sup>, Yuzuru Karouji<sup>2</sup>, Tomokatsu Morota<sup>1</sup>, Hiroshi Takeda<sup>3</sup>, Nobuyuki Hasebe<sup>2</sup>, Makoto Hareyama<sup>1</sup>, Masanori Kobayashi<sup>4</sup>, Eido Shibamura<sup>5</sup>, Yoshiaki Ishihara<sup>6</sup>

<sup>1</sup> 宇宙科学研究所, <sup>2</sup> 早稲田大学, <sup>3</sup> 東京大学, <sup>4</sup> 千葉工業大学, <sup>5</sup> 埼玉県立大学, <sup>6</sup> 国立天文台  
<sup>1</sup>JAXA/ISAS, <sup>2</sup>Waseda University, <sup>3</sup>The University of Tokyo, <sup>4</sup>Chiba Institute of Technology, <sup>5</sup>Saitama Prefectural University, <sup>6</sup>NAOJ

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.

キーワード: ガンマ線分光計, かぐや, セレーネ, トリウム, 月裏側  
Keywords: gamma-ray spectrometer, Kaguya, SELENE, Thorium, lunar farside