



80th RAP Seminar

The 80th Seminar on RIKEN Center for Advanced Photonics

Language: Japanese

- Hybrid Format -

Date: **February 17(Fri), 16:00 - 17:00, 2023**

On-site: **W319, 3F, Cooperation Center, Wako Campus, RIKEN**

Online : **Zoom**

Title: **Exploration of Lunar Water Ice Resources
by Near-Infrared Spectroscopy**

近赤外分光による月の水氷資源探査

Speaker: **Prof. Kazuto SAIKI**

**Department of Earth and Space Science
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佐伯 和人

大阪大学大学院理学研究科 宇宙地球科学専攻 准教授



Pre-registration



<https://business.form-mailer.jp/fms/7099309c190531>

Several studies that focus on searching for water ice resources in the lunar permanently shadowed regions (PSRs) reported positive results. However, the abundance, condensation mechanism, and lateral and vertical distribution of water at the PSRs remain unclear. To solve these problems, the Lunar Polar Exploration (LUPEX) project started by Indian Space Research Organization (ISRO) and JAXA. I and members of ALIS team proposed the near infrared imaging spectrometer named Advanced Lunar Imaging Spectrometer (ALIS) for LUPEX and it was selected as a candidate instrument for the rover. I will present our strategy to explore water ice resources at the lunar South Pole by using near-infrared spectroscopy.

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