

76th RAP Seminar

The 76th Seminar on RIKEN Center for Advanced Photonics

Language: Japanese

- ONLINE Seminar -

Date: **April 15(Fri) 16:00 - 17:00, 2022**

Title: **Technology of Seimei Telescope
and Revealing 3-D Structure
of Orion Nebula**

せいめい望遠鏡の技術とオリオン星雲の3次元構造

Speaker: **Prof. Mikio KURITA**

**Division of Physics and Astronomy
Graduate School of Science
Kyoto University**

栗田 光樹夫

京都大学 大学院理学研究科 准教授

Seimei Telescope constructed in Okayama 2020 is the largest one in East Asia and the first segmented telescope in Japan. In the Seimei project, we developed three key technologies, quick manufacturing process for free-form and large optics, segment control system, and optimization method of light-weight structure. I focus on new metrology system and data stitching algorithm for free form optics.

I will introduce a 3-dimensional structure of Orion nebula as science topic, which is revealed by near-infrared polarimetric observation by IRSF in South African Astronomical Observatory. This is a unique technique newly developed and has potential to lead 3-D information of the reflection nebulae in the universe.