

Purpose of the TMT Session

This session is intended to discuss Japan's scientific operations for Japanese time of TMT and instrument development costs with the Japanese astronomy community.

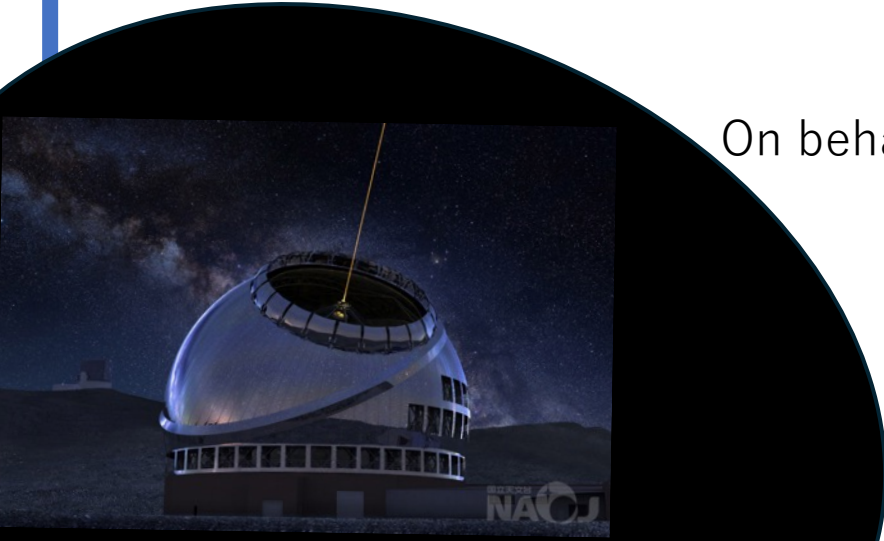
2025.10.31

Fumi Yoshida

On behalf of the TMT Science Advisory Committee

Phase IV TMT-JSAC Members September 1, 2024 – August 31, 2026

S. Nishiyama, M. Akiyama, F. Iwamuro, N. Oi, T. Kotani, M. Konishi,
I. Sakon, M. Tanaka, Y. Harikane, M. Honda, K. Morokuma,
S. Okamoto, H. Nagai, H. Furusawa



Consultation item from the NAOJ director

There are three items.

Chairman/
Vice Chairman
of TMT-JSAC

Scientific Operations

International operations, domestic operations, and collaboration with Subaru telescope operation

Okamoto, Nagai, Oi, Sakon, Harikane, Morokuma, Furusawa, **Aoki**, Iono, Yasui

Instrument Development Strategy

TMT Strategic Fundamental Development Research, Development Strategy Review for Phase II Instruments, Training of Young Researchers Involved in Instrument Development

Kotani, Akiyama, Iwamuro, Honda, **Yasui**

Science Outreach and Collaboration with Others

Participate in domestic and international research conferences. Host research conferences. Contribute to academic journals. Organize public lectures.

Konishi, Tanaka, Nishiyama, Yoshida, **Ionno**, **Yashi**

**TMT
Project
Office**

Each item is based on the operational and research accomplishments of the Subaru Telescope. We are exploring ways to build on these accomplishments using large telescopes. Considering the resources of the National Astronomical Observatory, it's difficult to operate two large telescopes separately at the same time. Therefore, we would like to hear from Subaru Users opinion about collaborating with TMT. This is the reason, we have included a TMT session in the Subaru UM.

Time	Title	Speaker	Note
13:45 - 14:05	Star formation in the extreme outer Galaxy revealed by JWST and Subaru	Natsuko Izumi	Science Talk Reviewing existing knowledge for the TMT era and anticipating new scientific achievements achievable with 30-meter-class telescopes
14:05 - 14:15	TMT-ACCESS report	Ryuji Suzuki	One of the attempts to involve young researchers in the development of observational instruments for 30-meter-class telescopes
14:15 - 14:35	TMT progress report	Wako Aoki	Latest situation surrounding TMT
14:35 - 14:50	Introduction and discussion of TMT science operations	Sakurako Okamoto	Examining the optimal scientific operations of TMT for the Japanese community. Collaboration with Subaru is essential
14:50 - 15:05	TMT Strategic Development Research Expenses. Report and discussion of the survey result “TMT戦略基礎開発研究経費”	Takayuki Kotani	We investigated community requests regarding TMT strategic development research expenses. We will share the results of the survey and discuss them for future reference.

Although time is limited, I would like to hear your opinions and discuss how we should proceed with the development and operation of large telescopes such as the TMT.