

Subaru Telescope International Partnership Workshop – Summary Report

Date: 1 / 27 / 2018

To: The Director of the Subaru Telescope

Workshop chair person	Name	Yosuke Minowa / Yusei Koyama		
	Affiliation Job Title	Subaru Telescope, Assistant Professor		
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Workshop title	ULTIMATE-Subaru collaboration meeting 2018 https://www.naoj.org/Projects/newdev/ngao/201801_collabo_mtg/index.html			
Date	1 / 15 / 2018 – 1 / 16 / 2018			
Venue (address)	Mitaka Campus, National Astronomical Observatory of Japan (Tokyo, Japan)			
Number of participants	26			
Workshop overview	<p>(Please briefly describe scientific rationales, and what you learned/achieved through the WS.)</p> <p>Rationale: ULTIMATE-Subaru is the project to develop next-generation facility adaptive optics system and instruments utilizing its capabilities of the Subaru Telescope. In the current plan, ULTIMATE-Subaru will exploit Ground Layer AO (GLAO) system to offer wide-field (15'x15') capability (imaging/MOS spectroscopy/ multi-IFS) in NIR, and is expected to become a "core platform" of international collaboration in science and instrumentation at the Subaru Telescope in 2020s. The goal of this meeting is to share the current status and timeline of ULTIMATE-Subaru project between the core institutes (ANU/AAO/NRC/ASIAA), and to establish an (pre-)official partnership by defining the area of contribution from each partner institute.</p> <p>Overview (Day-1): There was a report from ULTIMATE WG members on the current status of ULTIMATE-Subaru project, including the latest version of the AO simulation which is an on-going collaboration with ANU. We then had presentations by the invited representatives of each partner institute on their scientific/technical interests on ULTIMATE-Subaru. Finally, we had a detailed discussion on the possible collaboration between the partners, project management, and A/Is toward the Conceptual Design Review (CoDR) scheduled in July 2018.</p> <p>Overview (Day-2): The 2nd day was mostly devoted for science team discussion to summarize A/Is toward the CoDR. We first had a report from the chairs of five science subgroups (high-z imaging/high-z MOS spectroscopy/ IFU science/nearby galaxies/Galactic science), and then had a discussion on survey design, and how to expand the science team, in particular focusing on how to establish a smooth communication and scientist network between the partner countries.</p>			
Discussion on Subaru international operation during the workshop	<p>(Please describe what you discussed toward the era of Subaru international operation)</p> <p>In addition to scientific interests, all the partners show strong interests in the development of GLAO and/or instrument of ULTIMATE-Subaru. In the current framework of Subaru international operation, instrument development will not be regarded as a contribution to the “telescope operation”. This sounds complicated and perhaps discouraging for many of potential partner institutes having interests in technical contribution in ULTIMATE-Subaru. It is therefore very important to establish a framework which can accommodate interests in instrumentation to attract more countries/institutes in the world.</p>			
Comments on the Subaru WS support program (if any)	It would be great if there is a guideline for the possible use of a part of the allocated budget to support lunch/dinner costs with foreign participants. Although this is not a scientific point at all – this might affect the impression of Subaru for possible partner countries.			

Note 1: You can adjust the size of the boxes as you want, but the report must be within 1-page.

Note 2: Please attach the final WS program and participant lists when submitting this report.

Participant List:

- Yosuke Minowa (co-chair, Subaru)
- Yusei Koyama (co-chair, Subaru)
- Ikuru Iwata (Subaru)
- Takashi Hattori (Subaru)
- Michitoshi Yoshida (Subaru)
- Ichi Tanaka (Subaru)
- Christophe Clergeon (Subaru) - via zoom
- Nagayoshi Ohashi (Subaru)
- Yoshito Ono (Subaru)
- Naruhisa Takato (Subaru)
- Masayuki Akiyama (Tohoku)
- Tadayuki Kodama (Tohoku)
- Kentaro Motohara (U Tokyo)
- Yutaka Hayano (NAOJ)
- Hideki Takami (NAOJ)
- Chris Lidman (AAO) - via zoom
- Simon Ellis (AAO)
- Luc Simard (NRC)
- Dennis Crabtree (NRC)
- Yen-Ting Lin (ASIAA)
- Shiang-Yu Wang (ASIAA)
- Visa Korkiakoski (ANU)
- Blair Conn (ANU)
- Masao Hayashi (NAOJ)
- Ken-ichi Tadaki (NAOJ)
- Tomoko Suzuki (NAOJ)

Program:

Jan 15th (Day1): Technical & Management Session

10:30-10:40 Opening announcement (Yusei Koyama)

[Chair, Ono]

10:40-10:55 Opening remark (Michitoshi Yoshida)

10:55-11:25 ULTIMATE project overview (Yosuke Minowa)

11:25-11:45 ULTIMATE-START (Masayuki Akiyama)

11:45-12:05 ULTIMATE AO simulation (Visa Korkiakoski)

12:05-12:25 ULTIMATE instrument plan (Takashi Hattori)

12:25-14:00 Lunch Meeting

[Chair, Ohashi]

14:00-14:20 Collaboration framework (Ikuru Iwata)

14:20-14:40 AAO (Simon Ellis)

14:40-15:00 ANU (Blair Conn)

15:00-15:15 ASIAA (Shiang-Yu Wang)

15:15-15:30 ASIAA (Yen-Ting Lin)

15:30-15:50 NRC (Luc Simard)

15:50-16:15 Break

16:15-17:15 Discussion (I) - project management (Minowa)

(19:00- Banquet)

Jan 16 (Day2): Science Session

[Chair, Akiyama]

10:00-10:20 Science team status (Yusei Koyama)

10:20-10:40 High-z imaging (Tadayuki Kodama)

10:40-11:00 High-z MOS (Ken-ichi Tadaki)

11:00-11:20 IFU science (Chris Lidman)

11:20-11:40 Nearby galaxies (Kentaro Motohara)

11:40-12:00 Galactic science (Yusei Koyama)

12:00-14:00 Lunch

14:00-15:00 Discussion (II) - Science (Koyama)

15:00-15:15 Break

15:15-15:50 Summary - A/I toward CoDR2018 (Minowa, Koyama)

15:50-16:00 Closing remarks (Yoshida)