Roman-Subaru Synergistic Observations

Link to the URL of
ISAS/JAXA Roman activity page

https://www.ir.isas.jaxa.jp/Roman/JAXA_Roman.html

Direct link to the Subaru Time
Call for Proposal page

Coordination for Roman-Subaru Synergistic Observations

- Discussions/Coordination started in 2016 (Subaru UM, SAC discussion, GOPIRA symp)
  100nights for the Roman-Subaru Synergistic Observations

- Roman Subaru Synergistic Observations Workshop I~VI (2017-2024/12)
  + VII for proposal coordination (2026/6/16)

- Call for White Papers (2025)

- Selection of the ‘Prioritized Themes’ for 100 nights Synergistic Observations
  Selection Results was reported in 2026 February

- Call for Proposals for Subaru Time Synergistic Observations (2026 April)
  - Information Session (Apr30/May 1, 2026)
  - Workshop for Coordination (June 16, 2026)
  - Proposal deadline July 17, 2026

Roman

Steering Group

Taka Sumi （Osaka University) JAXA Roman Project PI
Toru Yamada （ISAS, JAXA) JAXA Roman Project Team Leader, Chair
Yusei Koyama (Subaru Telescope, NAOJ） Subaru Telescope rep
Yoshiki Matsuoka （Ehime University） Subaru Advisory Committee rep

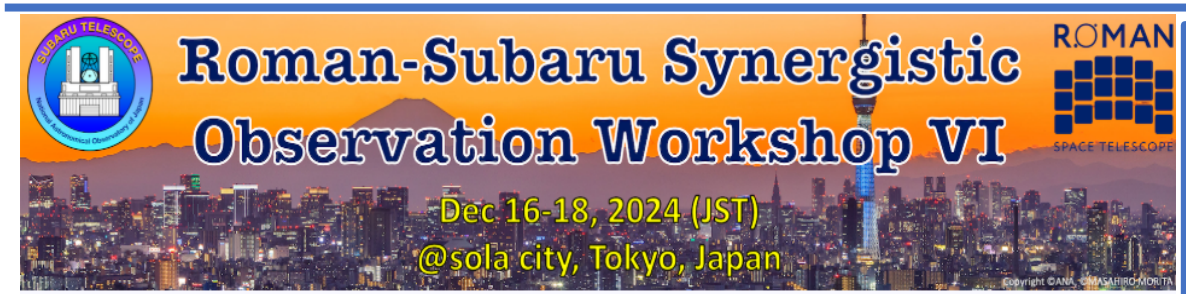
Julie McEnery （NASA, GSFC)， Project Scientist
Jason Rhodes （JPL),
David Weinberg (Ohio State University)

Thank you also for discussions in SAC and Subaru Telescope, and in UM from tome to time.

Timeline so far (nearly as planned)

YEAR		
2017	1st Workshop	Collecting ideas, broad interest
2018	2nd Workshop	Possible programs ➔ summarized in WP
2019	Whitepaper WFIRST session in the Subaru 20th Meeting	Possible programs in various different science fields
2020-21	Preliminary proposal development 4th Workshop	
2023	NASA Science Team is set Proposal Solicitation process start	
2024	Consolidating the Program	
2024-25	Proposal Planning, Teaming	
2025-26	Final Proposal Submission	The proposal of the program will be reviewed by Subaru Advisory Committee
2026 TBD	Scheduling	

Recent Workshops (VI, VII)



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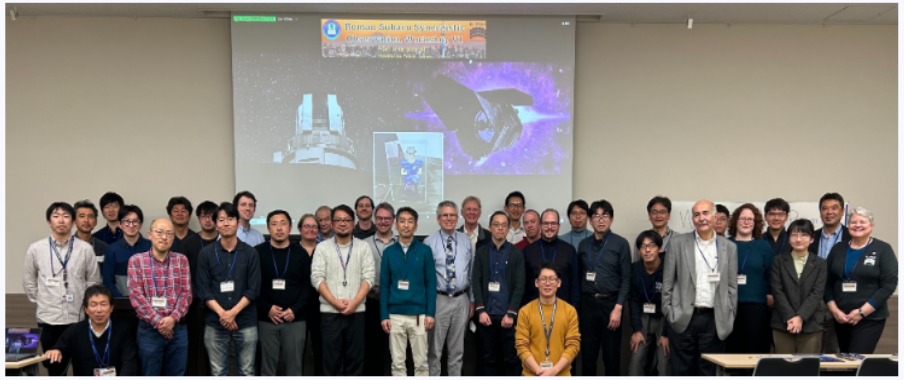

About The Workshop

Additional change of the deadline of the White Paper Submission (as of Feb 28 2025)

The new due date is March 14, 2025 (UT 24h)
The Steering Group agreed to have further shift of the deadline of the whitepaper submission considering the current situation and some possible difficulties. The new due date is March 14, 2025 (UT 24h). Sorry for the inconvenience of the late announcement near the current due date. There is no further change of the deadline.

~~**Change of the deadline of the White Paper Submission**~~

Roman-Subaru Synergistic Observations Workshop VII

June 16, 2026 | Sora-city Conference Center, Ochanomizu, Tokyo | Hybrid

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About The Workshop

This workshop discusses scientific opportunities and practical coordination for synergistic observations with the Nancy Grace Roman Space Telescope and Subaru Telescope.

Date	June 16, 2026
Time	09:00-16:10 JST / 00:00-07:10 UTC
Venue	Terrace Room, Sora-city Conference Center, Ochanomizu, Tokyo
Format	On-site and Zoom participation

Registration

Please register using the form below.

Registration Form

Program

PDF format, with the ZOOM link address

Program(PDF) Form

June 16, 2026
- Presentations of the prioritized and other themes.
- DISCUSSIONS

Prioritized Themes

[1] Advancing Supernova Ia Cosmology and Time Domain Studies
(in-guide: 40 nights; at the Roman northern High Latitude Time Domain Survey (HLTDS) fields; over-/under-guide: ±10 nights)

HSC Imaging and PFS 'LIVE' and host spectroscopy
Roman HLTDS North Field at ELAIS N1

[2] Roman–Subaru/HSC Concurrent Observations for Rogue Planet Mass Measurements
(in-guide: 20 nights; at the Roman Galactic Bulge Time Domain Survey (GBTDS) fields; over-/under-guide: ±5 nights)

Microlensing 'parallax' observations with HSC
Roman GBTDS Field

[3] The Subaru–PFS/Roman Deep Survey: Redshifts for Roman Cosmology
(in-guide: 40 nights; at the Roman High Latitude Wide Area Survey (HLWAS) equatorial Deep Survey fields; over-/under-guide: ±10 nights)

Photometric Redshift Calibration for Cosmology
COSMOS/XMM-LSS Roman HLWAS 'Deep Field'

Future Timeline

- (Bottom-up) Coordination in community and proposal preparation
- Due date of Proposals for Subaru Time: July 17, 2026
- Integration to the ‘100-night’ program proposal draft by Steering Group including a fraction of the detailed proposal (w/ HSC) for S27A
- late August/September
  Submission of the integrated proposal to SAC/Subaru Telescope
  - ➔ feedback from SAC
  - ➔ approval of the S27A programs by SAC
  - ➔ time allocation for S27A by Subaru TAC
  - ➔ S27A scheduling

- Further coordination for the program in S27B-2032

From Discussions in Workshop VII

■ Time Allocation

- cases when target visibility is limited to a fraction of a night due to the requirement of concurrent observations with Roman
  ➔ **time allocation in a fraction of the nights is requested**.
- Moon phase: SAC guideline is using the assumption of 'gray' nights. Roman programs have more desired weights for low background.

■ Observations

- SNIa 'Live' spectroscopy needs the **optimization of PFS fiber allocation (in the fixed FoV) nearly on-site for the observations**. (~ToO like). How close it is possible for the case of ToO?
- SAC guideline is using the assumption of 'Classical'. 'Queue' mode allocation is also applicable for some cases if it is more efficient?