

Roman Science Inspired By Emerging JWST Results

Conference Program 20-23 June 2023

TUESDAY

The morning is reserved for travel as an observance of the Juneteenth holiday. Sessions will begin at 1pm.

Session 1

Time	Title	Speaker
1 to 1:15pm	Welcome to STScI	Nancy Levenson
1:15 to 1:50pm	Roman Science and Mission Updates	Julie McEnery
1:50 to 2:10pm	Engaging with Roman	Karoline Gilbert
2:10 to 3pm	Juneteenth Celebration: the History of Harriet Tubman, the Underground Railroad, and Emancipation in Maryland	Linda Harris

Coffee Break with refreshments provided from 3:00 to 3:30pm

Session 2: Surveys of the Very Nearby Universe

Time	Title	Speaker
3:30 to 4pm	Exoplanet Science with JWST & Roman: A Journey through Space and Time	Samuel Grunblatt
4 to 4:15pm	Exoplanet characterization synergies between JWST and Roman	Nestor Espinoza
4:15 to 4:30pm	Finding Planets with Roman and JWST	Julien Girard
4:30 to 4:45pm	Eta Tel B: 20 years of follow-up	Pedro Henrique Soares da Silva de Pinho Nogueira
4:45 to 5:15pm	Discovery and Characterization of Small Bodies in the Solar System	Rosemary Pike
5:15 to 5:30pm	Poster Lightning talks	Poster Presenters

Poster Session 1 from 5:30 to 6:30pm

Astronomy on Tap Event at Guilford Hall Brewery from 7 to about 10:30pm

Please join a special Astronomy on Tap event with the [Baltimore Astronomy on Tap group](#) at [Guilford Hall Brewery](#). Astronomy on Tap is usually very well attended (120 typical but 200+ in some cases) and has 3 Astro talks with breaks for trivia, games, and prizes!

WEDNESDAY

Coffee Break with refreshments provided from 9:30 to 10am

Session 3: Surveys within the Milky Way and Nearby Galaxies

Time	Title	Speaker
10 to 10:15am	Revealing the Large-Scale Kinematic Structure of the Galactic Center with the Roman Space Telescope	Matthew Hosek
10:15 to 10:30	The origin of the very metal-rich stars near the sun	Ankita Mondal
10:30 to 10:45am	Brown and Red Dwarfs Identified in NIR Imaging	Benne Willem Holwerda
10:45 to 11:15	Near-field Cosmology with Roman and JWST	Nitya Kallivayalil

Session 4A: Galaxy Surveys at High Redshift

Time	Title	Speaker
11:15 to 11:30	Using Roman Space Telescope to find Dark Star candidates	Cosmin Illie
11:30 to 12pm	Interactive Discussion	SOC Moderator

Lunch provided in the Café from 12 to 1pm

Session 4B: Galaxy Surveys at High Redshift (cont.)

Time	Title	Speaker
1 to 1:30pm	Probing the Early Universe using the Most Distant Quasars	Jinyi Yang
1:30 to 1:45pm	A Comprehensive JWST Study on Galaxies at $z \sim 9-16$ and Its Implication for the Roman Surveys	Yuichi Harikane
1:45 to 2pm	Gravitationally lensed quasars in the reionization era: the prospective for the Roman Telescope	Minghao Yue
2 to 2:15pm	Predicting the Yields of $z > 6.5$ Quasar Surveys in the Era of Roman and Rubin	Wei Leong Tee
2:15 to 2:30pm	Probing the host galaxies of first quasars at $z \sim 7.5$ with JWST data	Weizhe Liu
2:30 to 3pm	Surveys of Galaxies at High Redshift with JWST and Roman	Micaela Bagley

Coffee Break with refreshments provided from 3:00 to 3:30pm

Science Writers Workshop led by the STScI Office of Public Outreach from 3:30 to 5pm

Conference Reception with refreshments provided and a cash bar from 5 to 7pm

THURSDAY

Coffee Break with refreshments provided from 9:30 to 10am

Session 5: Surveys of Nearby Galaxies

Time	Title	Speaker
10 to 10:30am	Stellar populations, and observation cosmology with Roman and JWST	Myung Gyoon Lee
10:30 to 10:45	Revealing the Merger Histories of Nearby Galaxies from their Stellar Halos with Roman	Adam Smercina
10:45 to 11am	Distances with Surface Brightness Fluctuations (SBF) and Globular Cluster Luminosity Functions (GCLF) with JWST and Roman	Nandini Hazra
11 to 11:15am	Unveiling the Low Surface Brightness Universe with Roman	Mireia Montes
11:15 to 11:30	Below the iceberg: Low surface brightness astronomy with HST, Euclid, and Roman	Alejandro S. Borlaff
11:30 to 11:45	A search for AGN in Green Peas in the local universe	Mainak Singha
11:45 to 12pm	Massively Multiplexed Spectroscopy with the Prime Focus Spectrograph in the Era of JWST and Roman	Jenny Greene

Lunch provided in the Café from 12 to 1pm

Session 6: Surveys of the flickering universe and galaxy formation

Time	Title	Speaker
1 to 1:30pm	Here, There, Everywhere: Strongly Lensed Supernovae, JWST, and Roman	Patrick Kelly
1:30 to 1:45pm	Guiding future deep-wide Roman surveys with galaxy formation physics we learn from JWST	Aaron Yung
1:45 to 2pm	Representing cosmic structures with graph neural networks	John Wu
2 to 2:15pm	Let's Go Extreme with Roman: Observing $Z \sim 0.5-2$ low and high EW ELGs	Ali Ahmad Khostovan
2:15 to 2:30pm	Characterization of JWST NIRCcam PSFs and Implications for AGN+Host Image Decomposition	Mingyang Zhuang
2:30 to 2:45pm	Anchoring Future Roman Deep Fields with COSMOS-Web: large scale structure to transients	Caitlin Casey
2:45 to 3pm	Poster Lightning Talks	Poster Presenters

Coffee Break with refreshments provided from 3:00 to 3:30pm

THURSDAY (CONT.)

Poster Session 2 from 3:30 to 4:30pm

STScl Public Lecture from 4:30 to 6pm

The public lecture will focus on the legacy of Nancy Grace Roman and her role as namesake of the Roman Mission. The two speakers are Joan Yvonne Gordon, a family friend of Nancy Grace Roman, and Dr. Rachael Beaton, a member of the Roman team at STScl.

Conference Organized Dinner Event at 6pm

FRIDAY

Coffee Break with refreshments provided from 9:30 to 10am

Session 7: Surveys of Galaxies before and around Cosmic Noon

Time	Title	Speaker
10 to 10:30am	New Insights on Luminous Infrared Galaxies from JWST	Vivian U
10:30 to 11am	Galaxies Evolution with Space-Based Slitless Spectroscopy: Past, Present, and Roman	Jasleen Matharu
11 to 11:15am	ESpRESSO: high-fidelity realistic grism simulations for Roman Space Telescope	Austen Gabrielpillai
11:15 to 11:30am	The Power of NIRCam/Grism Wide Field Slitless Spectroscopy (WFSS) Observations: Early Results and Implications for Roman	Eiichi Egami
11:30 to 11:45	Planning for Roman: Case Study of Wide-field Slitless Grism Spectroscopy with JWST	Gaël Noirot

Lunch provided in the Café from 12 to 1pm

Session 8: Cosmology and Large Scale Surveys

Time	Title	Speaker
1 to 1:30pm	Weak lensing with JWST and Roman: Current Insights and Future Synergies	Ami Choi
1:30 to 1:45pm	Population III Protostar Variability in an Elliptical Orbit	Jongwon Park
1:45 to 2pm	Prospects on Mapping Ionized Bubbles and Tracing the Global Evolution of the Ionized Structures during the Epoch of Reionization with Roman Space Telescope	Intae Jung
2 to 2:15pm	Lyman-alpha at Cosmic Dawn with the LAGER survey and the Roman Space Telescope	Isak Wold
2:15 to 2:30pm	Roman Data Processing: Lessons Learned from JWST	Henry Ferguson
2:30 to 3pm	Interactive Discussion	SOC Moderator

Coffee Break with refreshments provided from 3:00 to 3:30pm

Conference Summary from 3:30 to 4pm