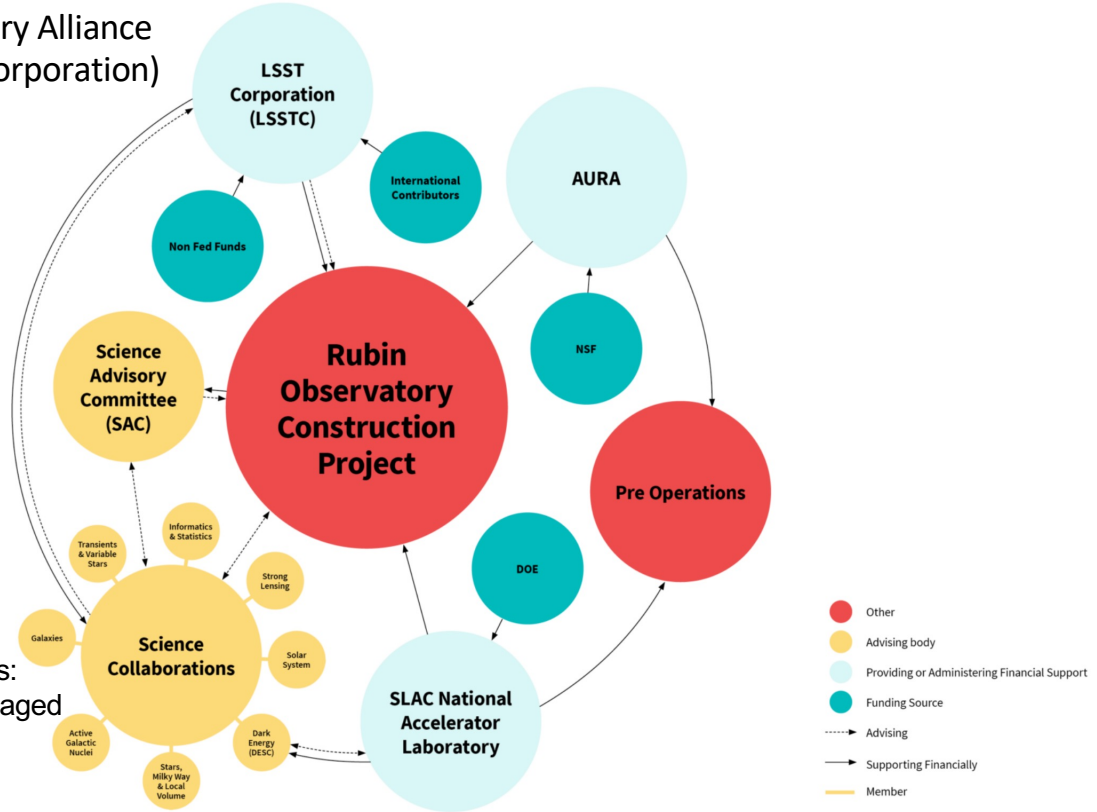
LSST DISCOVERY ALLIANCE

Sara (Rosaria) Bonito - she/her
rosaria.bonito@inaf.it
INAF - Osservatorio Astronomico di Palermo
Rep. INAF in LSST DA
Board of Director

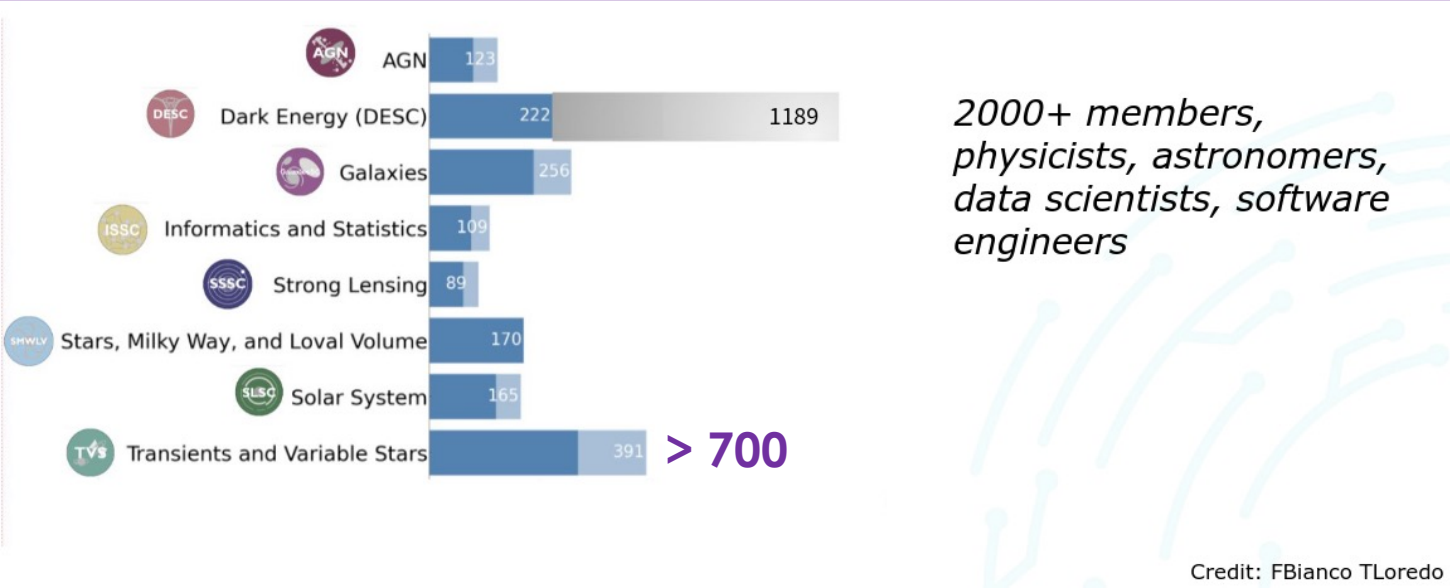
Rubin LSST Ecosystem

Discovery Alliance
(LSST Corporation)



Science Collaborations:
autonomous, self-managed
teams

Rubin LSST
Science collaborations



Transients and Variable Stars Science Collaboration

CO-CHAIRS

Igor Andreoni

University of Maryland

NASA Goddard Space Flight Center

Sara Bonito

INAF

Osservatorio Astronomico di Palermo

https://lsst-tvssc.github.io/

CONTACT

Contact the co-Chairs for more information:

Igor Andreoni - andreoni at umd.edu

Sara Bonito - rosaria.bonito at inaf.it

TVSSC

https://youtu.be/MXQQzbC5HxY

INTERNATIONAL COLLABORATION

MEMBERS

TVS HAS OVER 400 MEMBERS IN 17 COUNTRIES WORLDWIDE

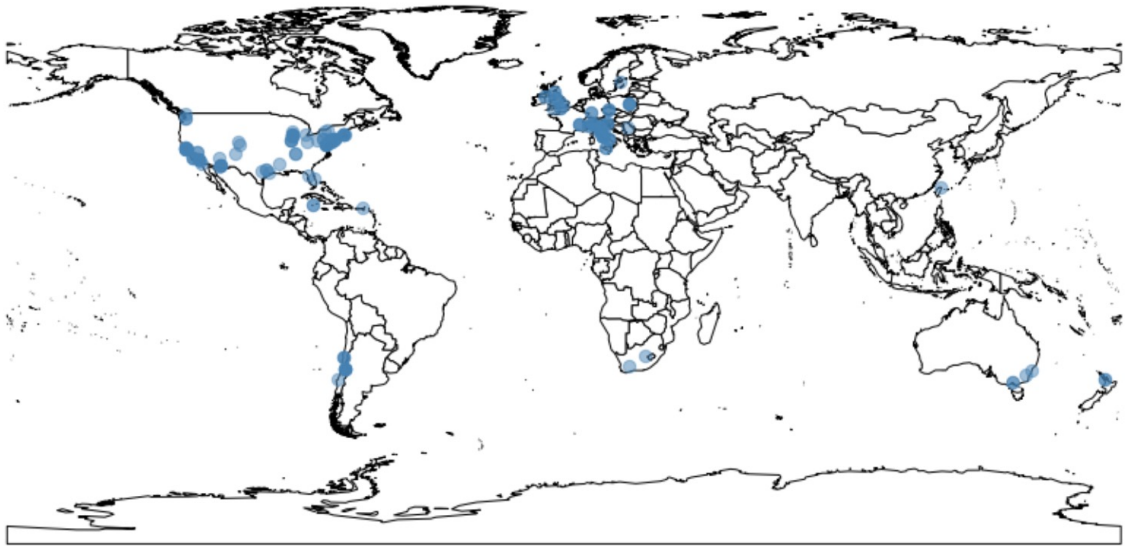
700

JUNE 2020

TVSSC

VERA C. RUBIN OBSERVATORY

33 in-kind projects for which TVS is recipient



TVSSC

SUBGROUPS

JEDI: JUSTICE, EQUITY, DIVERSITY & INCLUSION

coordinators: Sara Bonito, INAF - Osservatorio Astronomico di Palermo

ANOMALIES AND TRUE NOVELTIES

coordinator: Federica Bianco, University of Delaware

CLASSIFICATION & CHARACTERIZATION

coordinators: Nina Hernitschek, Vanderbilt

DATA VISUALIZATIONS AND CHARACTERIZATIONS

coordinators: Sabina Ustamujic, Sally Macfarlane

FAST TRANSIENTS

coordinator: Shar Daniels, Unviersity of Delaware

SUPERNOVAE

coordinators: Fabio Ragosta, UW

TIDAL DISRUPTION EVENTS

coordinators: Sjoert van Velzen, Leiden Observatory

NON-DEGENERATE ERUPTIVE VARIABLES

coordinators: Sara Bonito, INAF

PULSATING VARIABLES

coordinators: Kelly Hambleton, Villanova

DISTANCE SCALES

coordinators: Marcella Marconi, INAF - Osservatorio Astronomico di Capodimonte Lovro Palaversa, Ruđer Bošković Institute

INTERACTING BINARIES

coordinator: Andrej Prsa, Villanova Paula Szkody, UW

MICROLENSING SUBGROUP

coordinators: Somayeh Khakpash, UDelaware

MULTIWAVELENGTH CHARACTERIZATION AND COUNTERPARTS

coordinators: Raffaella Margutti, NorthWestern

TASK FORCES

SURVEY STRATEGY TASK FORCE

Coordinator: Rachel Street

This task force coordinates work by TVS members relating to all aspects of survey strategy, in particular working on papers for the planned special edition publication of Cadence Notes. The group also coordinates with similar task forces from other Science Collaborations with overlapping science interests.

DATA PREVIEW 0 TASK FORCE

Coordinator: Sara Bonito
Vincenzo Petrecca

This task force is working on a range of projects undertaken for Data Preview 0, and serves as a forum for members to share their progress and troubleshoot issues. In the course of these projects, members will evaluate the functionality of the Rubin Science Platform for their science.

SOFTWARE TASK FORCE

Coordinator: Federica Bianco

All of the science that TVS will do during LSST will depend on having access to software tools capable of handling LSST data, the rate at which it is delivered, and interfacing with key services in the Rubin "ecosystem" such as alert brokers and the Rubin Science Platform. Rubin's recent call to solicit international in-kind contributions has resulted in a number of teams committing to providing software development effort to be guided by TVS towards software that will benefit our members. This task force will help to conceive and design software that needs to created from scratch or adapted for Rubin, and begin to work with international teams to oversee the development of that software.

CROWDED FIELDS PHOTOMETRY TASK FORCE

Coordinator: Massimo Dall'Ora

This task force will continue the productive collaboration started in previous years. It will continue to evaluate the quality of photometry that can be produced from Rubin data products in crowded star fields, and its application for variable star science. We suggest this task also focuses on writing a comprehensive report of their activities up to now.

COMMISSIONING TASK FORCE

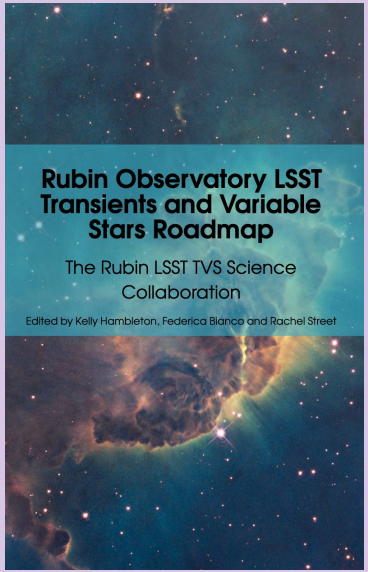
Coordinator: Markus Rabus

This task force will liaise with the Rubin commissioning staff, continuing to provide scientific input on activities and observations that benefit TVS science in the commissioning phase of the project.

TVS ROADMAP

https://doi.org/10.1088/1538-3873/acdb9a
(Peer reviewed paper, Hambleton et al., PASP)

Microlensing
Eclipsing Binary Stars
Cataclysmic Variables
Intermediate-Luminosity Optical Transients
Light Echoes of eruptions and explosions
EM counterparts of GW events
Neutron Star Binaries
Black Hole Binaries
Supernovae
Tidal Disruption Events



Young stellar objects
Pulsating Stars
Cepheids and RR Lyrae Stars
Long Period Variables
Brown Dwarfs
GRB
Blazars
Inclusion
Alert Brokers
SETI

VERA C. RUBIN OBSERVATORY

TVSSC

Sara (Rosaria) Bonito – INAF – Osservatorio Astronomico di Palermo

TVS ROADMAP

https://doi.org/10.1088/1538-3873/acdb9a
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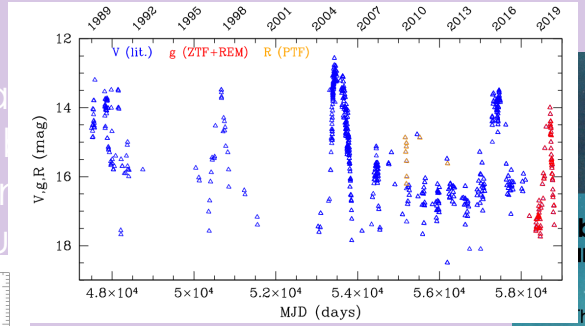
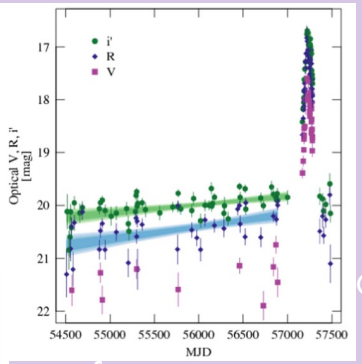
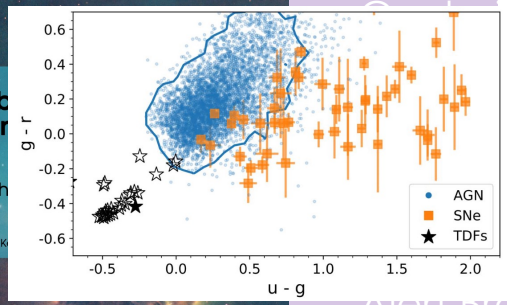
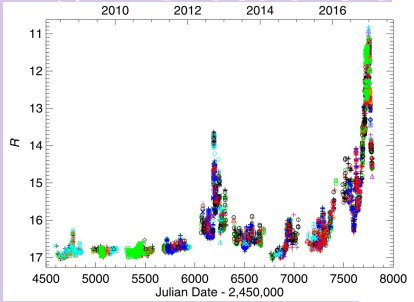
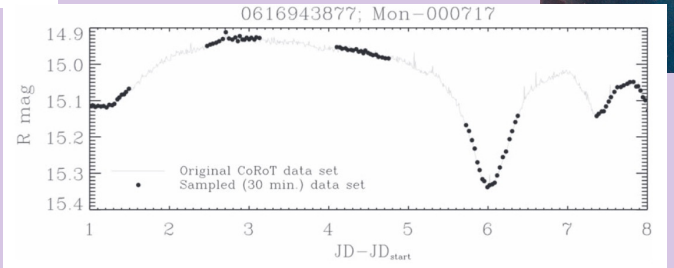
Alert brokers

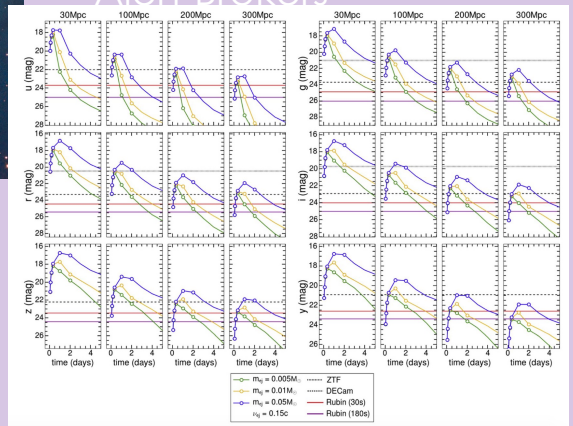












Sara (Rosaria) Bonito – INAF – Osservatorio Astronomico di Palermo

Rubin LSST Survey Strategy Optimization

Preparing to Discover the Unknown with Rubin LSST: Time Domain - X. Li+ 2022 ApJS 258 2
Blazar Variability with the Vera C. Rubin Legacy Survey of Space and Time - C. M. Raiteri+ 2022 ApJS 258 3
The Impact of Observing Strategy on the Reliable Classification of Standard Candle Stars: Detection of Amplitude, Period, and Phase Modulation (Blazhko Effect) of RR Lyrae Stars with LSST - N. Hernitschek+ 2022 ApJS 258 4
Optimizing Cadences with Realistic Light-curve Filtering for Serendipitous Kilonova Discovery with Vera Rubin Observatory - I. Andreoni+ 2022 ApJS 258 5
Give Me a Few Hours: Exploring Short Timescales in Rubin Obs. Cadence Simulations - E. Bellm, ..., IA+ 2022 ApJS 258 13
Target-of-opportunity Observations of Gravitational-wave Events with Vera Rubin Obs. - I.Andreoni+ 2022 ApJS 260 18
The LSST Era of Supermassive Black Hole Accretion Disk Reverberation Mapping - A. B. Kovačević+ 2022 ApJS 262 49
Young Stellar Objects, Accretion Disks, and Their Variability with Rubin Observatory LSST - R. Bonito & Venuti+ 2023 ApJS 265 27
Light-curve Recovery with the Vera Rubin Observatory's LSST. I. Pulsating Stars in Local Group Dwarf Galaxies - M. Di Criscienzo+ 2023 ApJS 265 41
Light-curve Recovery with Rubin-LSST. II. Unveiling the Darkness of the Galactic Bulge (VESTALE) with RR Lyrae - M. Di Criscienzo+ 2024 ApJS 273 35
LSST Survey Strategy in the Galactic Plane and Magellanic Clouds - R. A. Street+ 2023 ApJS267 15
Rubin Observatory's Survey Strategy Performance for Tidal Disruption Events - K. BučarBricman+ 2023 ApJS 268 13
An Evenly Spaced LSST Cadence for Rapidly Variable Stars - E. Feigelson + 2023 ApJS 268 11
Rubin LSST Observing Strategies to Maximize Volume and Uniformity Coverage of Star-forming Regions in the Galactic Plane - L. Prisinzano + 2023 ApJS 265 39
Microlensing Discovery and Characterization Efficiency in the Vera C. Rubin Legacy Survey of Space and Time - N. S. Abrams, M. Hunterdmark et al., ApJS 2025, 276, 10
Kilonova parameters estimation with LSST at Vera C. Rubin Observatory – Ragosta et al., ApJS 2024, 966, 214
Every Datapoint Counts: Stellar Flares as a Case Study of Atmosphere Aided Studies of Transients in the LSST Era - Clarke et al., ApJS272, 41
Discovering Cataclysmic Variables from the Rubin Observatory LSST Buckley et al. 2025, 281, 6

Rosaria (Sara) Bonito dal 2023
(succedendo ad Adriano Fontana) in qualita' di:

- rappresentante Italia (INAF)
- membro Board of Directors
- membro Admissions Committee
  - richiesta 2025 altro membro Audit and Financial Committee: Massimo Brescia

The Discovery Alliance Leadership Team

DR. BETH WILLMAN
CHIEF EXECUTIVE OFFICER

DR. MICHAEL WOOD-VASEY
PRESIDENT, BOARD OF DIRECTORS

ELIZABETH HEILE
DIRECTOR OF FINANCE & ADMINISTRATION

AMANDA PRESTON
DIRECTOR OF STRATEGIC ENGAGEMENT & PHILANTHROPY

DR. JENO SOKOLOSKI
CHIEF SCIENTIST AND DIRECTOR, LINCC

Board of Directors

- **Adam Bolton,** SLAC/Stanford University
- **Rosaria (Sara) Bonito,** Insituto Nazionale di AstroFisica (INAF)
- **James Davenport,** University of Washington
- **Larry Gladney,** Yale University
- **Jenny Greene,** Princeton University
- **Buell Jannuzi,** University of Arizona
- **Kathryn Johnston,** Columbia University
- **Jeremy Kubica,** Director of Engineering for the LINCC Frameworks team
- **Pat McCarthy,** NOIRLab
- **Gautham Narayan** University of Illinois
- **Markus Rabus,** Universidad Católica de la Santísima Concepción (UCSC)
- **Risa Wechsler,** Stanford University
- **Michael Wood-Vasey,** University of Pittsburgh

LSST Discovery Alliance

Courtesy of LSST-DA team

LSST Discovery Alliance

LSST Discovery Alliance

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About | Programs | Collaborate | News | Join | Donate

Our Staff and Board of Directors

Home | About LSST Discovery Alliance | Our Staff and Board of Directors

Board of Directors

- **Adam Bolton**, SLAC/Stanford University
- **Rosaria (Sara) Bonito**, Insituto Nazionale di AstroFisica (INAF)
- **James Davenport**, University of Washington
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- **Jeremy Kubica**, Director of Engineering for the LINCC Frameworks team
- **Pat McCarthy**, NOIRLab
- **Gautham Narayan** (*acting board member*), University of Illinois
- **Markus Rabus**, Universidad Católica de la Santísima Concepción (UCSC)
- **Risa Wechsler**, Stanford University
- **Michael Wood-Vasey**, University of Pittsburgh

LSST Discovery Alliance will host the 2025 Week of Engagement in Tucson, Arizona, **November 17–21, 2025**. This annual gathering brings together scientists, fellows, educators, and leaders from across the Rubin Observatory ecosystem for a week dedicated to collaboration, community building, and shared learning.

Throughout the week, participants will take part in a range of activities, including the Catalyst Symposium, collaborative hack sessions, scientific plenaries, professional development breakouts, Board of Directors and Member Representatives meetings, and opportunities for informal connection. The program is designed to highlight the work of the Rubin LSST community, surface new ideas, and strengthen partnerships across institutions.

14 Board Members/42 Member Istitutes in LSST DA

Invited in Chile 2026

LSST Discovery Alliance's Singular Response

Our purpose is to ensure that any scientist with a great question for the Legacy Survey of Space and Time will have access to the resources needed to answer it.

These resources include:

1. *LSST-specific software engineering and data computation tools and support*
2. *Training and skill-building for working with tools for massive datasets*
3. *Networks for global collaboration and professional development at all levels, from undergraduates to senior researchers*

LSST Discovery Alliance

Courtesy of LSST-DA team

Our Distinctive Approach

We remove barriers to breakthrough science through interconnected programs that leverage the resources and expertise of our global alliance and the decades of experience we have with all aspects of the Rubin LSST Project.

Active major projects

- Catalyst Fellowship funded by the John Templeton Foundation—an interdisciplinary LSST-focused prize postdoc fellowship with structured mentorship and leadership training.
- LINCC Frameworks—an ambitious program to develop state-of-the-art analysis techniques and software capable of meeting the scale and complexity of LSST.
- LSST-DA Data Science Fellowship Program—a big data training and networking program for astrophysics graduate students.

LSST Discovery Alliance

The Time is Now

After 25 years of planning and construction, the first Rubin Observatory images have been taken. New software and data technologies for maximizing Rubin data are becoming available, but hard work is needed to make them widely accessible.

What we do now will have a deep impact on LSST and future projects based on huge, open, scientific datasets in the era of AI.

We continue this work in the face of unprecedented challenges in the United States to basic science funding and principles. LSST-DA has a track record of delivering broadly impactful scientific programs and we offer a unique single focal point for the full LSST science community.

With support from individuals, foundations, and corporations, we work to seize the limitless scientific opportunity of LSST. We invite your engagement with this work.

Courtesy of LSST-DA team

New Projects for First Light

Low-cost, Agile Initiatives:

- Project Dovetail—joining scientists with software and data science experts through a novel approach that utilizes a collective of engineering consultants and scientists with software industry experience.
- Catalyst Postdoc Alliance—building a global network of postdocs conducting LSST-related research.

- Robust code
- Tutorials and documents
- User-friendly interface
- 30 hr Vs. hundreds hr
- Conversion in Python

New Projects for First Light

New Major Directions:

- LINCC Center for Collaborative Computing—providing a bridge between the federally funded Rubin Science Platform and additional computing resources and tools necessary for collaborative science with LSST
- Rubin Graduate International Exchange Fellowships—LSST-focused prize graduate-student fellowships with mentoring and professional development
- Increasing Undergraduate Research Capacity with LSST—providing materials and training to help institutions set up a tiered mentoring system to meet the demand for LSST-related undergraduate research opportunities
- Coordinating Follow-up Efforts—providing software infrastructure, scientific guidance, and social science tools to facilitate effective follow-up observations of transient astrophysical phenomena discovered by LSST

Courtesy of LSST-DA team

LSST DISCOVERY ALLIANCE

Programs by Focus Area

TOOLS

- LINCC Frameworks [1]
- Project Dovetail [2]
- LINCC Center for Collaborative Computing [2]
- Coordinating Follow-up Observations 2

TRAINING

- Catalyst Fellowship and Alliance [1]
- Data Science Fellowship Program [1]
- Undergraduate Summer Program [1]
- International Graduate Exchange Fellowships [2]
- Increasing Undergraduate Research Capacity [2]

COLLABORATIVE NETWORKS

- Childcare Support [1]
- Science Catalyst Small Grants [1]
- Expansion of Institutional Partnerships [1]

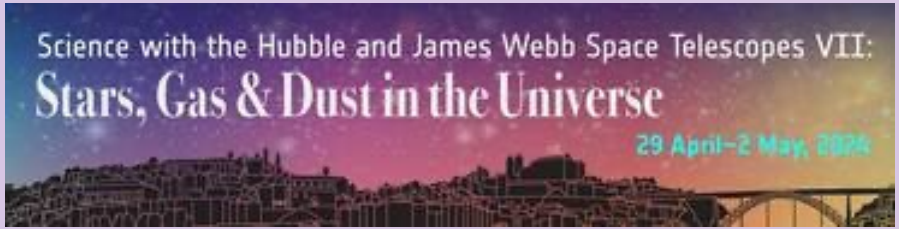
[1] *On-going*
[2] *Seeking launch funding*

LSST Discovery Alliance

Courtesy of LSST-DA team

ACKNOWLEDGEMENT

Significant **childcare financial support** to attend as invited speaker



by

LSST Discovery Alliance

- Over half of the initial science papers (5 of 8) from Rubin's Data Preview 1 used LINCC Frameworks' spatial and temporal analysis framework (LSDB).

- Four new institutional members joined LSST-DA from 3 continents;

- A global alliance of 3 dozen Rubin LSST-focused postdocs, launched at LSST-DA's November Catalyst Symposium.

- Dozens of undergraduate and graduate students were trained and built cohorts through the Data Science Fellowship and Summer Student Programs;

- Professional software engineers provided active, iterative support to more than a dozen science teams through LINCC Frameworks Incubators and Project Dovetail;

- The Rubin Undergraduate Network found a home with LSST Discovery Alliance.

Courtesy of LSST-DA CEO – Beth Willman

- Over half of the initial science papers (5 of 8) from Rubin's Data Preview 1 used LINCC Frameworks' spatial and temporal analysis framework (LSDB).

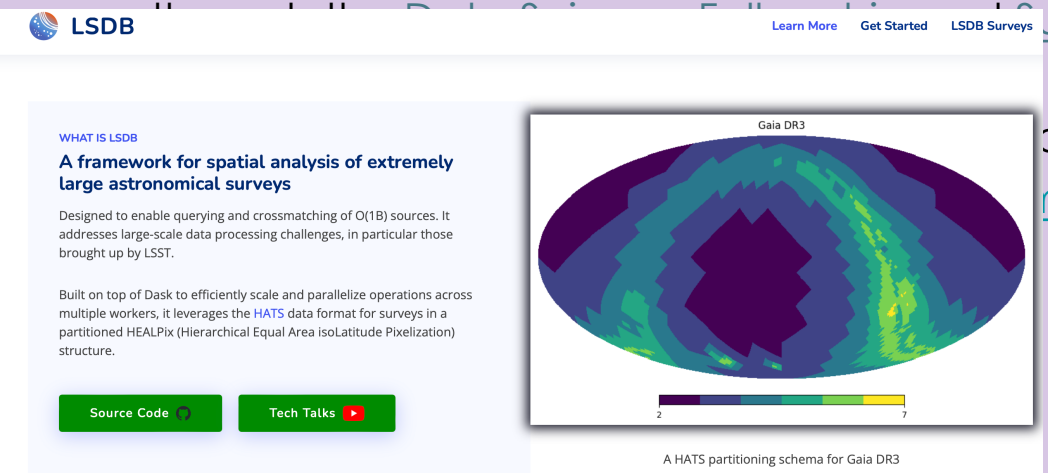
LINCC Frameworks develops state-of-the-art analysis techniques that can meet the scale and complexity demanded by the Vera C. Rubin Observatory Legacy Survey of Space and Time (Rubin LSST) data.

Through interactions with the community, we will continually refine the plans, identify new opportunities to collaborate, coordinate with groups already working in these areas, and seek other areas where software infrastructure development could strongly impact community software development for LSST. For a more comprehensive description of technical projects, including technical documents, visit the team's wiki page.

- Dozens of undergraduate and graduate students were trained and built cohorts ummer Student Programs;

ctive, iterative support to more than neworks Incubators and Project

home with LSST Discovery Alliance.



A HATS partitioning schema for Gaia DR3

- Four new institutional members joined LSST-DA from 3 continents;

Current Member Institutions

Institution	Representative
Adam Mickiewicz University, Astronomical Observatory Institute (IOA)	Agnieszka Kryszczyńska
Adler Planetarium	Michael Zevin
Astronomy Australia Limited (AAL)	Chris Wolf and Stuart Ryder
Astrophysics Institute of the Canary Islands (IAC)	Johan Knapen
Astronomisches Rechen-Institut (ARI), Heidelberg University	Eva Grebel
Carnegie Mellon University	Rachel Mandelbaum
California Polytechnic State University, San Luis Obispo	Louise Edwards
Chicago Area Partners (IIT/CCCs)	Emily Leiner
City University of New York (CUNY)	Saavik Ford
Columbia University	Morgan May
Rutgers University	Eric Gawiser
San Diego State University	Robert Quimby
Schmidt Sciences	Arpita Roy
DOE's SLAC National Accelerator Laboratory	Adam Bolton
Texas A & M University	Krista Lynne Smith
The Institute of Physics of the Academy of the Czech Republic	Michael Prouza
University of Arizona*	Buell Jannuzi
University of California-San Diego	Christopher Theissen
University of Illinois at Urbana-Champaign	Joaquin Vieira
University of Oxford	Aprajita Verma
University of Pittsburgh	Jeffrey Newman
University of Texas, Rio Grande Valley	Ryan Oelkers
University of Toronto, Canada	Renee Hlozek
University of Virginia	Maryam Modjaz
Hobart and William Smith Colleges (HWS)	Leslie Hebb
Istituto Nazionale di AstroFisica (INAF)	Rosaria 'Sara' Bonito
Johns Hopkins University	Alessandra Corsi
Kavli Institute for Particle Astrophysics & Cosmology – Stanford University	Patricia Burchat
Laboratorio Interinstitucional de e-Astronomia (LIneA)	Luiz da Costa
Las Cumbres Observatory Global Telescope Network, Inc.	Lisa Storrie-Lombardi
Max Planck Institute for Astronomy (MPIA), Heidelberg	Coryn Bailer-Jones
Northwestern University	Adam Miller
AURA/NSF's NOIRLab (formerly AURA/NOAO)*	Knut Olsen
Pennsylvania State University	Don Schneider
Princeton University	Michael Strauss
Purdue University	John Peterson
Republic of Chile, Universidad Católica de la Santísima Concepción	Markus Rabus
University of Washington*	Nora Shipp
Villanova University	Becka Phillipson
Yale University	Larry Gladney

- A global alliance of 3 dozen Rubin LSST-focused postdocs, launched at LSST-DA's November Catalyst Symposium.

LSST Discovery Alliance is piloting a new program that brings valuable elements of the LSST-DA Catalyst Fellowship Program to a broader community of postdoctoral scholars: *the Catalyst Postdoctoral Alliance*.

Like the inaugural cohorts of Catalyst Fellows, the expanded Catalyst Postdoc Alliance community is composed of an international community of early career scholars with the potential to become leaders in the Rubin community, both through their scientific research and their commitment to the constructive and inclusive practice of science with big data.

In its current pilot phase, Catalyst Postdoc Alliance activities will span academic year September 1, 2025 – August 31, 2026.

The current members of the Catalyst Postdoc Alliance are:

Tiffany Nichols	Northeastern University
Charlotte Olsen	New York City College of Technology – CUNY
Aarya Patil	Max Planck Institute, Heidelburg
Frederick Poidevin	University of Instituto de Astrofisica de Canarias (IAC)
Antonio Porras-Valverde	Yale University
Conor Rasnome	University of Arizona
Gabriele Riccio	Osservatorio Astronomico d'Abruzzo – INAF
Paul Rogozenski	Carnegie Mellon University
Tim Sacco	University of Arizona
Rubens Sautter	Laboratorio Interinstitucional de e-Astronomia (LIneA)
Huei Sears	Rutgers University
Behzad Tahmasebzadeh	Villanova University

Courtesy of LSST-DA CEO – Beth Willman

- Dozens of undergraduate and graduate students were trained and built cohorts through the Data Science Fellowship and Summer Student Programs;
- Professi… …t to more than a dozen… …nd Project Dovetai…
- The Rub… …very Alliance.

Launched in 2016, the LSST Discovery Alliance (LSST-DA) Data Science Fellowship Program (DSFP) positions graduate students to meet the scientific challenges of large astronomy datasets.

The DSFP is designed to supplement your graduate education in astronomy by teaching essential skills for dealing with the large data set soon to be produced by the Vera C. Rubin Observatory's LSST.

The DSFP is a two-year training program designed to teach skills required for Vera C. Rubin Observatory Legacy Survey of Space and Time (LSST) science that are not easily addressed by current astrophysics programs. Fellows learn a wide range of essential skills, including the basics of managing and building code, statistics, machine learning, scalable programming, data management, image processing, visualization, and communication. Our program is a supplement to graduate education, intended to teach students in astronomy-related fields (e.g., astrophysics, cosmology, planetary science, etc.) essential skills for dealing with big data.

- Dozens of undergraduate and graduate students were trained and built cohorts through the Data Science Fellowship and Summer Student Programs;

Today's undergraduates will be writing the first dissertations based on Rubin LSST data. The time is now to engage undergraduates in LSST-related research and connect them to the networks that will increase their likelihood of success.

Program Overview

The LSST Discovery Alliance (LSST-DA) Annual Summer Student program brings an international cadre of students together at a major Rubin LSST collaboration meeting. Historically, this has been at the annual Rubin Project and Community Workshop.

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2023 Summer Student Program

SEPTEMBER 15, 2023

Learn more about the LSST-DA Discovery Alliance 2023 Summer Student Program in Tucson AZ.

Courtesy of LSST-DA CEO – Beth Willman

- Professional software engineers provided active, iterative support to more than a dozen science teams through LINCC Frameworks Incubators and Project Dovetail;

The LINCC Frameworks Incubator Program supports teams of researchers to expand early-stage analysis software being developed as a part of LINCC Frameworks using their own scientific investigations. Scroll through this page to learn more about each of the Incubator Projects.

Interested in your own incubator? View the Call for Proposals for more information on how to apply.

Funded Incubator Projects:

- Supernova Template Fitting for the Age of LSST (Kaylee de Soto)
- Optimizing an LSST Solar System Simulator (Meg Schwamb)
- DeepDISC LSST: photo-z (Grant Merz)
- Integrating Robust Cross-Matching from the LSST: UK into the LINCC Frameworks (Tom Wilson)
- Developing the LePhare photometric redshift code to improve validation, robustness, usability and performance at scale (Raphael Shirley)
- Survey Masks and Ultrafast Correlation Functions for the Astronomical Community (Emilio Donoso)
- photo-D: Estimating Stellar Distances with the LSST's Broad-Band Photometry (Lovro Palaversa)
- Building an Anomaly Detection Recommendation System for Novel Transients in Early LSST Data (Amanda Wasserman)
- Orbit Fitting at LSST Scale (Matt Holman)
- A Scarlet2 framework for characterizing transients and their host galaxies (Charlotte Ward)
- Time-series Feature Generation and Machine Learning Classification of the Vera C. Rubin Observatory alert stream (Argyro Sasli)
- Linking a Physical Model Library to TDAstro and Improving Performance for Scalable Inference (Nikhil Sarin)

me with LSST Discovery Alliance.

Stage-one proposal deadline *	Approximate Incubator Dates
October 15, 2024	February – April, 2025
February 17, 2025	June – August, 2025
June 16, 2025	September – November, 2025
October 15, 2025	February – April, 2026
February 16, 2026	June – August, 2026
June 15, 2026	September – November, 2026

Courtesy of LSST-DA CEO – Beth Willman

- The Rubin Undergraduate Network found a home with LSST Discovery Alliance.

The Rubin Undergraduate Network (RUN) is a group of faculty, researchers, postgraduates, and staff members of primarily undergraduate-serving institutions and organizations who strive to involve and support undergraduates in research related to the Rubin Observatory and, in particular, the Legacy Survey of Space and Time (LSST). While our institutions are spread across the United States and around the world, we regularly gather for online meetings and together host presentations at astronomy conferences throughout the year. Anyone who has a particular interest in using Rubin data to facilitate and encourage undergraduate astronomy research is welcomed to join our organization.

Courtesy of LSST-DA CEO – Beth Willman

LSST Discovery Alliance

www.lsstdiscoveryalliance.org

933 N. Cherry Ave
Tucson, AZ 85719

August 14, 2024

sent via email to:
rosaria.bonito@inaf.it

Rosaria (Sara) Bonito
INAF - Osservatorio Astronomico di Palermo (OAPa)

Ref: 2024 Science Catalyst Small Grants Call for Proposals

Dear Rosaria (Sara) Bonito,

We are excited to inform you that your LSST Discovery Alliance (LSST-DA) proposal to support projects and/or scientific meetings to help position the community for early science with Rubin Observatory's LSST has been approved.

Your proposal titled, " **Preparing for Rubin LSST: Exploring the Variability of Infant Stellar Populations Across the Wavelength Spectrum (PREVIEW)**" will be funded in the

Tramuto et al. in prep.

LSST CORPORATION

933 N. Cherry Avenue, Tucson, AZ 85721 www.lsstcorporation.org

February 28, 2019 *sent via email to: rosaria.bonito@inaf.it*

Dr. Rosaria (Sara) Bonito
INAF

SUBJECT: 2019 LSST Corporation Grant Award #2019-02 Grantee Information

Dear Dr. Bonito:

I am happy to inform you that the LSST Corporation will fund your proposal **LSST@Europe4 – LSST**

LSST Discovery Alliance

LOG IN ✦ RESOURCES ✦ CON

About Programs Collaborate News

Home | Our Programs – LINCC | Inclusive Collaboration Initiatives | Inclusive Collaboration Projects

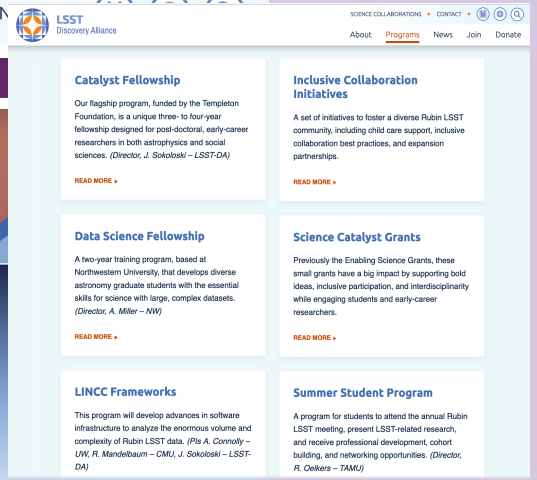
The below projects were all supported by grant 2020-1916 from the Heising-Simons Foundation.

General Training

Nurturing the future generations of Rubin scientists with effective, culturally responsive mentoring

Awardees: F. Bianco (University of Delaware), Rachel Street, Sara Bonito

Award: $17,000



Trained at INAF:
Silvia Piranomonte (financial support)
Sara Bonito

OCTOBER 2023

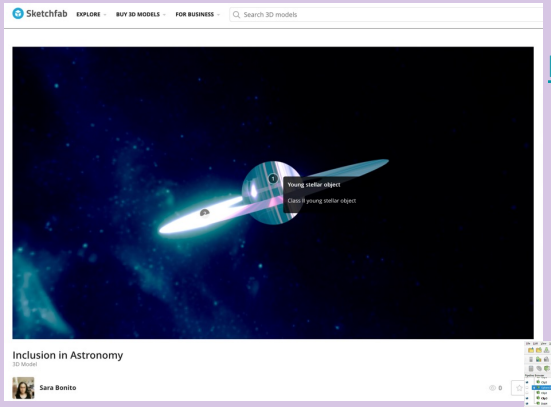
TVS RECEIVED A LSST DISCOVERY ALLIANCE INCLUSIVE COLLABORATIONS GRANT AND TO DEVELOP A MENTOR TRAINING PROGRAM - THE PROGRAM WILL BE COORDINATED BY SHAR DANIELS.

DATA PREVIEW 0 TASK FORCE

Coordinator: Sara Bonito
co-Chair: Vincenzo Petrecca

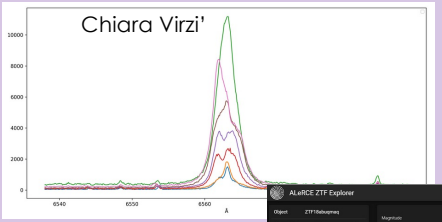
VERA C. RUBIN OBSERVATORY TVSSC

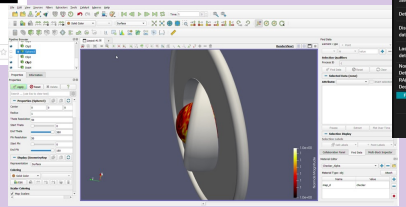
- Integration test of LSST Science Pipeline and Rubin Science Platform
- Build community experience with LSST data products and analysis tools



- internship for undergrad students:

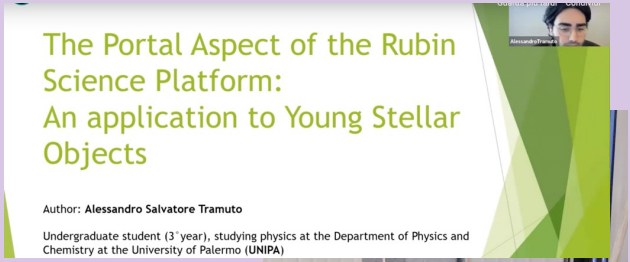
https://www.youtube.com/watch?v=rowIiyNXT5I&t=32s

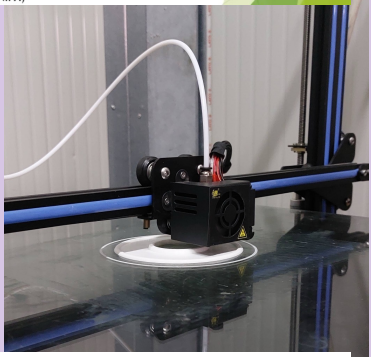




Dario Roscioli

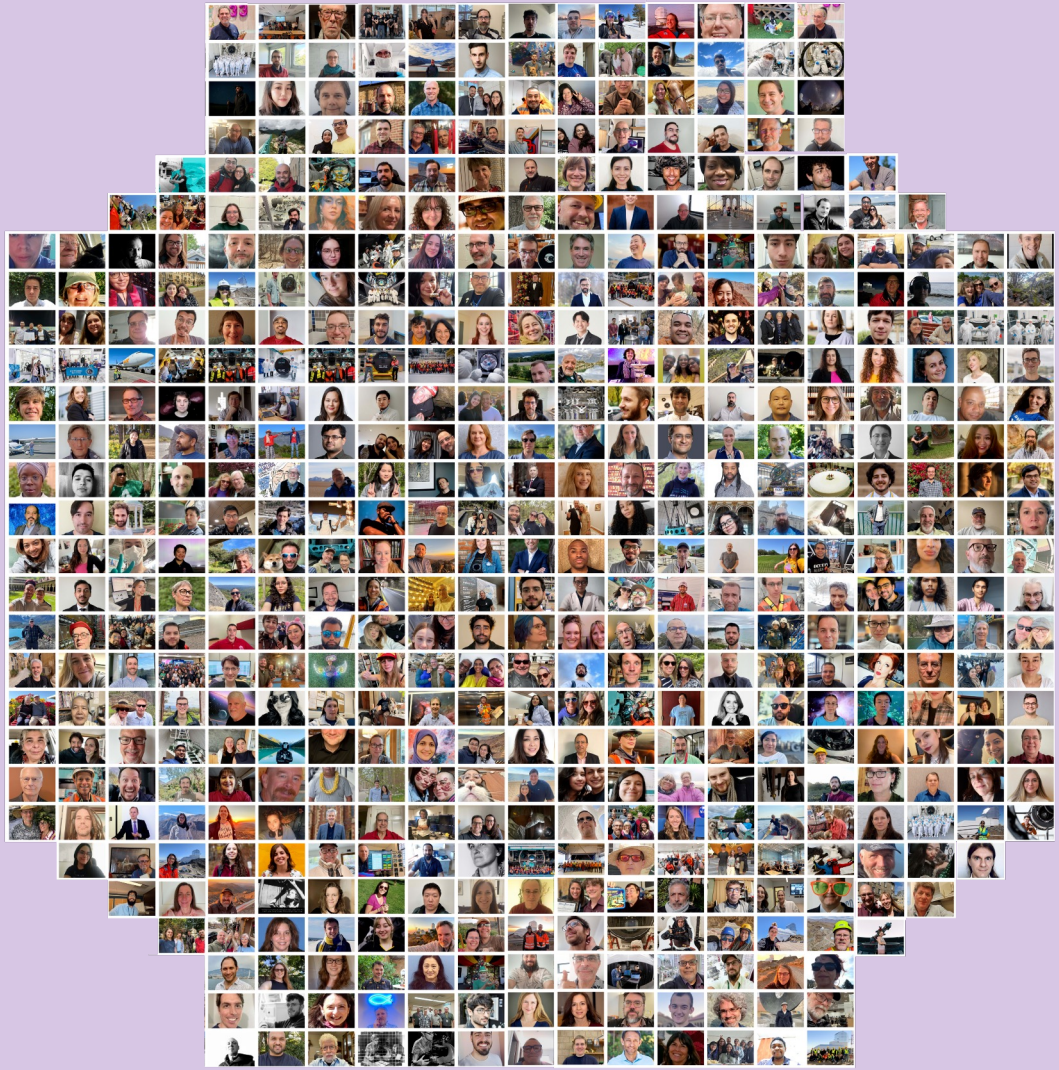
Chiara Virzi'





Alessandro Tramuto, Dario Roscioli, Chiara Virzi'
(internship tutor: Sara Bonito)

3D print (in collaboration with Ugo Lo Cicero, Sabina Ustamujic and Laura Venuti)



New funding opportunity from LSST Discovery Alliance

Fast Turnaround Science Grants for Early Science with Rubin's LSST**,** generously supported by the Heising-Simons Foundation
This program supports early LSST science by pairing **flexible grant funding** with a unique resource — **professional software engineering support**.Key Information:

•**Grant tiers**: Up to $12,000 (small), $50,000 (medium), and $120,000 (large)
•**Engineering support**: Each project will receive ~20 hours of customized software engineering assistance (awardees are not required to accept it)
•**Award Period of Performance:** mid-2026 to October 15, 2027
•**Eligibility**: Principal Investigators must be based at a U.S. academic institution; co-Is welcomed from any institution.
•**Deadline to apply**: **Tuesday, February 17, 2026, 11:59 PM Pacific Time**
•**Submission portal:** https://lsstdiscoveryalliance.submittable.com/submit
•**Full Call for Proposals:** https://tinyurl.com/earlylsstscience2026

COFUND PROPOSAL

Horizon Europe Work Programme for 2026-2027
https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/horizon-europe-work-programmes_en

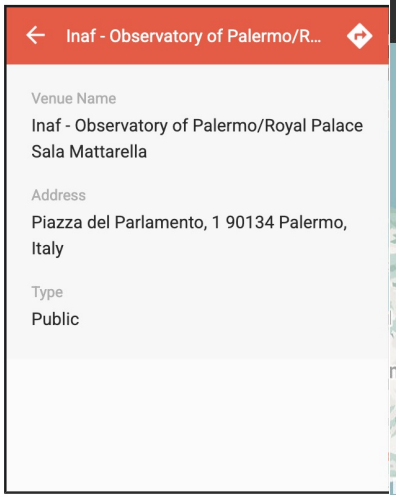
deadline for submission is April 8

22 postdocs in total in 2 cohorts (INAF: 8)
Increasing the number is possible of course and in fact very welcome
IAC
can once again lead this proposal and project
Should we submit two proposals, a second one for doctoral fellowships (PhD candidates)?
SPARK

First Look Event

Vera C. Rubin Observatory
Legacy Survey of Space and Time (LSST)
“First Look Event", Palermo, June 23rd, 2025
INAF Direzione Scientifica grants (PI: Bonito)

Join a Rubin Watch Party near you



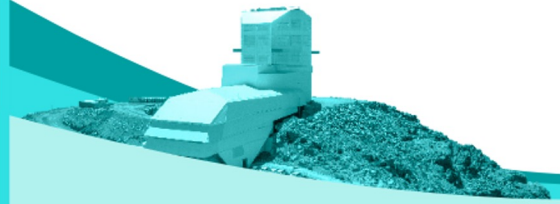
NSF–DOE Rubin's First LOOK

CERTIFICATE OF PARTICIPATION

This certifies that the Rubin First Look Watch Party held on 23 June 2025 by

Instituto Nazionale Di Astrofisica (INAF) Observatory of Palermo – Royal Palace Sala Mattarella

is officially recognized by NSF–DOE Vera C. Rubin Observatory.
This certificate is awarded in recognition of the active involvement and valuable contribution to the success of NSF–DOE Vera C. Rubin Observatory First Look event.



Željko Ivezić
Director of Rubin Construction

Congratulations! 2025 Congratulations!

VERA C. RUBIN OBSERVATORY
U.S. National Science Foundation
U.S. DEPARTMENT of ENERGY | Office of Science
NOIRLab AURA SLAC

RASSEGNA STAMPA

https://indico.ict.inaf.it/event/3284/page/1786-rassegna-stampa

Spazio, le prime spettacolari foto del telescopio Vera Rubin, di Fulvio Viviano, SKY Tg24.

Con gli occhi di Vera Rubin, Radio3 Scienza

Podcast, puntata del 21 giugno 2025, Cosmo 2050, Giornale Radio

GR 1 | GR 1 ore 10:00 del 24/06/2025 | Rai Radio 1 | RaiPlay Sound

Osservatorio Vera Rubin, le prime meravigliose immagini frutto della fotocamera astronomica più grande mai costruita, di Sara Carmignani, WIRED

Osservatorio Vera Rubin, le prime straordinarie immagini, di Agnese Licata, TGR

Le prime immagini del nuovo osservatorio Vera C. Rubin sulle Ande: «Il telescopio coglierà ogni minima variazione dello spazio», di Giovanni Caprara, Corriere della Sera

Il super telescopio Vera Rubin ci darà il più grande film del nostro Universo: "È una rivoluzione", di Matteo Marini, La Repubblica

I primi scatti del Rubin Observatory tracciano la via dell'astronomia del futuro, di Emiliano Ricci, Le Scienze

Rubin Observatory: l'universo si fa cinema. Dalle Ande cilene le prime immagini del cielo in movimento, di Pasqualino Trubia, Gazzetta Sarda

L'osservatorio Vera C. Rubin: una nuova era per l'astronomia dal cielo cileno, di Sara Biasi, SocialMediaLife.it

Il telescopio Vera Rubin inaugura l'astrocinematografia, ANSA Scienza

Ecco le prime immagini dell'Osservatorio Vera Rubin ottenute con la camera digitale più grande mai costruita, di Luca Tortorelli, Geopop

Nuove frontiere dell'astronomia, c'è anche l'Abruzzo, di Marina Moretti, RETE 8

Redazione Coelum

"Mai visto l'Universo così". Il telescopio che apre l'era dell'astrocinema, di Elena Dusi, La Repubblica, 24-06-2025

Dagli Stati Uniti a Palermo: il primo sguardo del Vera Rubin, di Giuseppe Fiasconaro e Davide Coero Borga, Media Inaf Tv

Oggi a Palermo è stato presentato il primo sguardo dell'Osservatorio Vera Rubin sull'universo, di Anna Cane, TGS

Perché le prime (spettacolari) immagini del super telescopio Vera Rubin sono una svolta, di Leopoldo Benacchio, Il Sole 24 Ore

Il telescopio Vera Rubin negli Usa inaugura l`astrocinematografia, di Enrica Battifoglia, Libertà, 26-06-2025

Se l'universo diventa un cinema. Ecco le prime spettacolari immagini del telescopio Vera Rubin, di Elena Dusi, La Repubblica

Vera C. Rubin Observatory intervista a Rosaria Bonito, di Molisella Lattanzi, Coelum Astronomia, n. 277.