# Welcome!

## Help Guide LSSTC's Fundraising Efforts

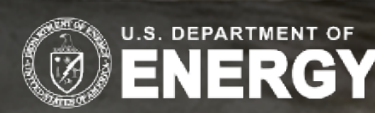8/13/20, 10:30a PDT

**Chair:** Jeno Sokoloski

**Rubin** Observatory

**Session Webpage:**

https://project.lsst.org/meetings/rubin2020/agenda/session/help-guide-lsstcs-fundraising-efforts
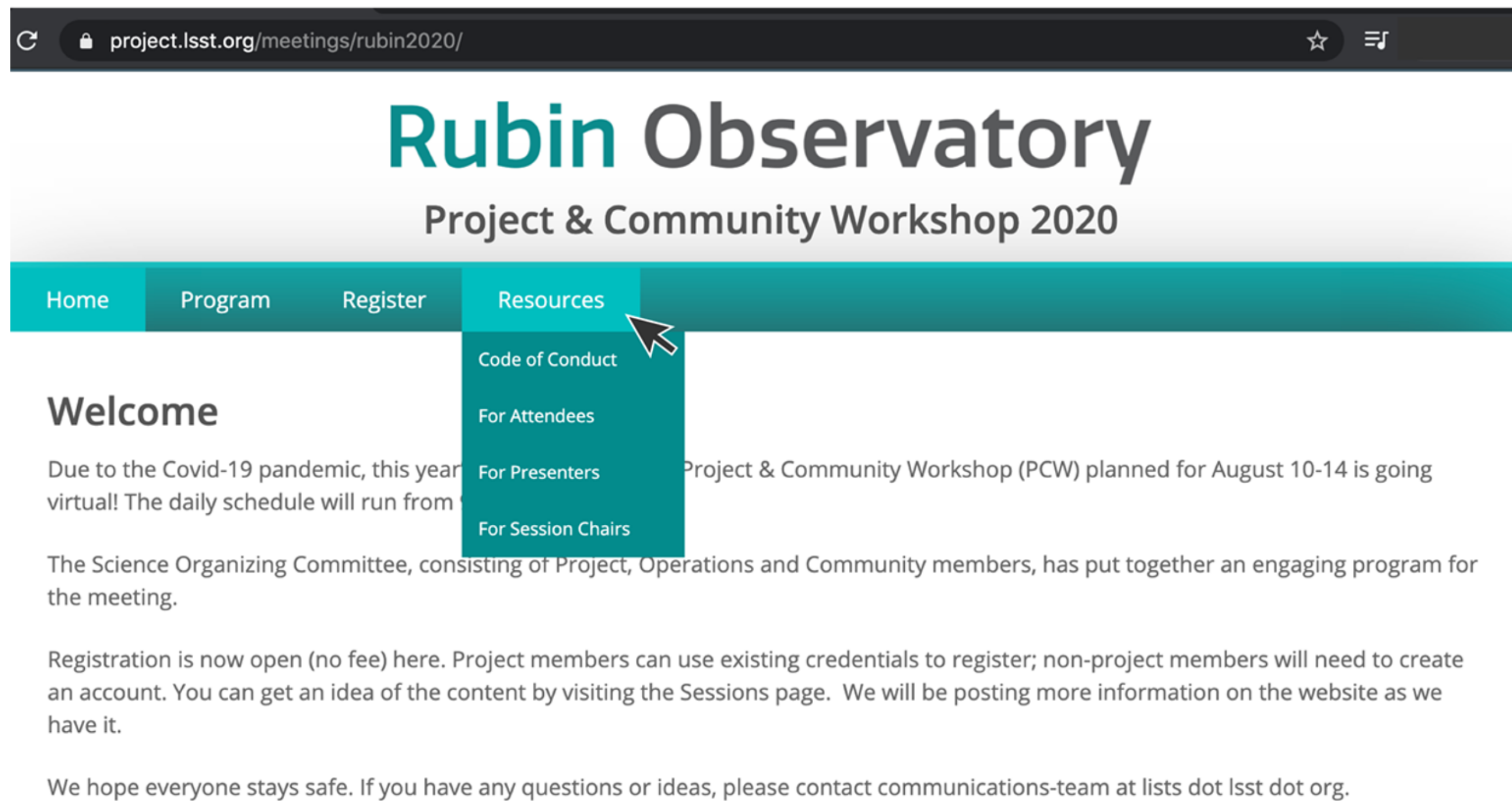
**Rubin2020_PCW Slack Channel:**

#day4-thu-slot2b-lsstc-fundraising

# Friendly Reminders

**Rubin** Observatory

☑ **You agreed to abide by the Code of Conduct at registration - it can be found here on the website**



☑ **Rubin adheres to the principles of Kindness, Trust, Respect, Diversity and Inclusion in order to provide a learning environment that produces rigor and excellence.**

☑ **Any discriminatory behavior against colleagues on any basis, such as gender, gender identity, race, ethnic background, national origin, religion, political affiliation, age, marital status, sexual orientation, disabilities or any other reason will not be tolerated.**

☑ **If I witness any form of bullying, harassment or aggression I will follow the reporting instructions in the Code of Conduct.**

# Friendly Reminders

**All talks at this workshop will be recorded.**

If you do not wish to be recorded, you are welcome to keep your camera off.

**Videos are posted the next working day.**

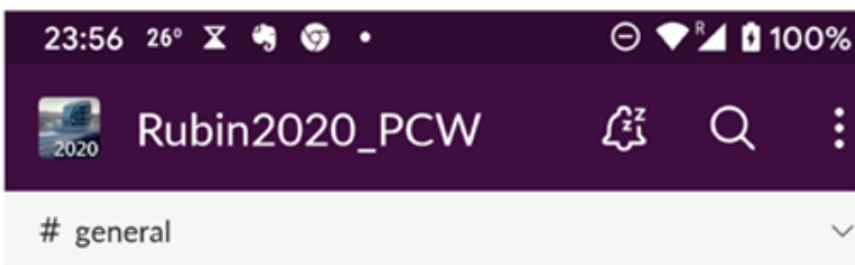Each session will be posted on YouTube and embedded on the session's page.

**Ask questions through the Slack channel or the Zoom chat.**

**Give Slack questions a thumbs-up.**

Questions with more thumbs up may get priority if time runs short.

**Show your appreciation.**

Feel free to applaud at any time but especially at the end - Slack has a clap emoji.

**You can access the presentation material on the session page.**

# LSST CORPORATION

## A MEMBER-BASED NON-PROFIT:

- <u>Goal:</u> to maximize the scientific output and societal impact of LSST

- <u>Strategy:</u> Use private philanthropy to initiate programs that benefit the LSST community (with extra benefits for LSSTC members).

‣ Members include ~30 institutions — working together to get the most out of LSST.

‣ LSSTC has a long relationship with the Project, and works closely with the Science Collaborations.

# LSSTC PROGRAMS

▶ Enabling Science Small Grants

    6th year; 84 projects funded

▶ Data Science Fellowship

    4th year; high demand



▶ Undergrads at PCW



    Would have been 3rd year.

▶ Workshops with funding competitions

Cadence Hackathon, 2018: $75k distributed to 42 authors of white papers.

Managing Follow-Up, 2019: seed funding and/or observing time awarded to 15 teams.

# 2020 ENABLING SCIENCE AWARD RECIPIENTS:

## NINE WORKSHOPS, TWO SUMMER STUDENT RESEARCH PROGRAMS, AND ONE DATA CHALLENGE

https://www.lsstcorporation.org/2020-Enabling-Science-Award-Recipients

**PI: Eric Aubourg, APC / Université de Paris and CEA**

Bayesian Deep Learning for Cosmology.  $12,000

**PI: Federica Bianco, University of Delaware**

PCW 2020 Hack-day and Documentation Sprint. $1,390

**PI: Francisco Förster & Anais Möller, Millennium Institute of Astrophysics and CNRS/LPC-Clermont**

Alert Brokers and Their User Community in the Era of LSST. $2,000

**PI: Rachel Mandelbaum & Patricia Burchat, CMU and Stanford**

Supporting Interactions between the LSST DESC, Rubin Observatory & LSST Science Collaborations with a Focus on Early Career Scientists. $12,100

**PI: Brian Nord, Fermilab**

LSST Undergraduate Internship for Data-Driven Astronomy. $13,568

**PI: Aaron Geller, Northwestern University**

Continuing the Connection of LSST Undergraduate Internships with the CIERA REU Program. $12,000

**PI: Andrés Plazas & Federica Bianco, Princeton University – Rubin Observatory  and University of Delaware**

Workshop on Systemic Racism and its Relation to Equity, Diversity, and Inclusion during the 2021 Rubin PCW. $6,000

**PI: Tyler Pritchard, NYU**

Detecting Anomalies, Outliers, and the Unknown Unknowns: Expanding the LSST Time-Domain Discovery Space. $5,000

**PI: Andy Rasmussen, Stanford University, SLAC**

Image Sensors for Precision Astronomy 2020/2021 Workshop. $8,000

**PI: Meg Schwamb, Queen's University Belfast**

Preparing for LSST Solar System Follow-up. $8,800

**PI: Aprajita Verma, University of Oxford**

Preparing for the Statistical Age of Strong Gravitational Lens Science with the Rubin Observatory LSST. $8,600

**PI: Gordon Richards, Drexel University**
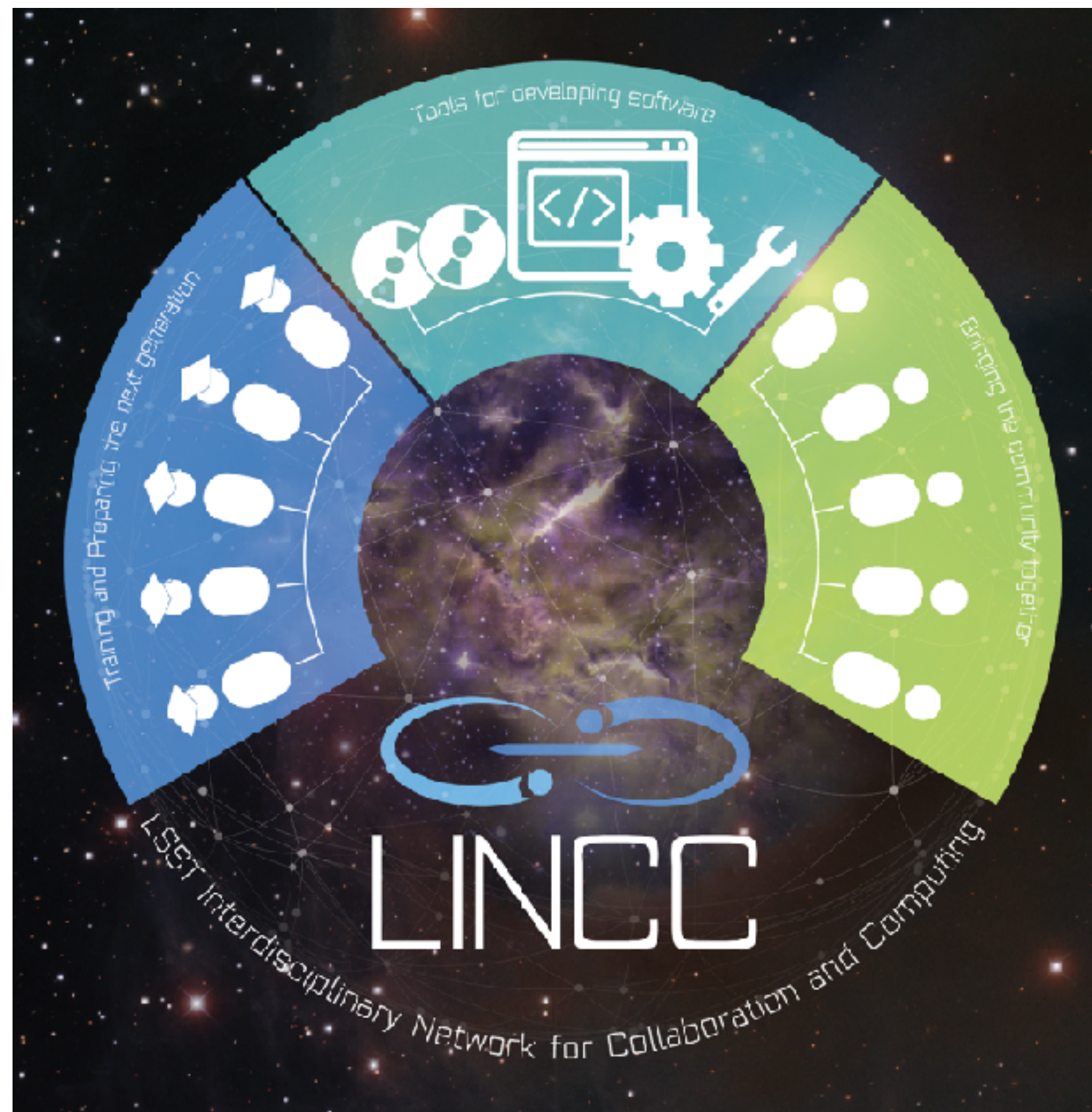
AGN Data Challenge. $12,500

We're aiming even higher.

# LINCC: FRAMEWORK TO FUNDRAISE FOR MULTIPLE PROGRAMS

LSST Interdisciplinary Network for Collaboration and Computing



▸ Programs, e.g.: 1) postdoctoral fellowships; 2) workshops w/ and w/o seed funding; and 3) incubators and visiting fellowships w/ grant support

▸ Administered through a growing network of data science centers with software engineers creating 'user generated' analysis tools.

# FEDERAL GRANTS



▸ Clearly defined opportunities

▸ Regular, published deadlines

▸ Open to all US researchers

▸ Strict rules

# VS

# PRIVATE PHILANTHROPY



▸ Opportunities must be found or made

▸ Donors' interests and constraints fluid

▸ Some flexibility, more risk tolerance

▸ International, infrastructure ok

We seek private philanthropy for projects with community-wide value that are hard to fund with federal grants.

# IDEAS FROM SCIENCE COLLABORATIONS LEADERSHIP

▸ Mentorship programs connecting the SCs with HBCUs

▸ Online collaboration software platform for follow-up planning and discussion of interesting targets

▸ Programs to support international collaborations

▸ Regular & innovative-format meetings, such as bootcamps for newcomers to LSST

▸ Grants for preparatory work (e.g., cadence optimization, development of widely useful machine learning techniques)

# NOW, LET'S HEAR FROM YOU

## Instructions for breakout groups:

1. Select a time-keeper.

2. Go around and introduce yourselves to each other.  Icebreaker question of the day: What discovery are you most looking forward to from LSST? (5 min)

3. Select a moderator to monitor the Zoom chat, and a scribe to take notes, ideally in a Google doc that can be shared with LSSTC later.

4. Spend a few minutes thinking individually about what program, service, or item would be most helpful to you in preparing to do research using LSST data (if the answer is "Money!" – for what?).   How similar or different  are the answers from various group members?  (10 min)

5. Next, can you identify something that doesn't already exist that would benefit ALL OF YOU in your LSST-related research or preparations? (10 min)

6. If you have time: What unconventional program that cannot be funded through traditional funding streams such as NSF grants do you think would be most helpful to the community?

7. Two minutes before the end of the breakout session, please decide on one takeaway from your discussion that your moderator can share on Slack.

# SHARE ONE TAKEAWAY

▶ Scribes, please share your notes with Kim Briamonte, kbriamonte@lsst.org

▶ Moderators, please type one takeaway from your discussion group in the Zoom chat or on the Slack channel.

Thank you for participating!