

Panel discussion:

**Building the Next Generation CE Community**

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# Framing the discussion

- Consider interest in CE participation
  - CE technologies
  - CE discovery potential
  - **CE as a facility**
- Consider current outlook for planning and funding
- Consider limited capacity in terms of people and funding
- What can be done in the near term?
  - 'low hanging fruit'

## How do we will build the CE community?

- Recruitment and retention of (early-career) researchers

  - credit, visibility, and authorship are important to retain scientists**

- How can we better support early-career scientists working on the instrument?

- How to attract scientists outside/tangential to the core CE collaboration

- How to provide data access, data distribution, and tools for analyzing data

- From STM panel on Monday: engaging grad students

  - outreach and communication plan for contributions to STM work

  - how to join the collaboration and opportunities to contribute to the science

# Lessons from LIGO and Numerical Relativity

- Gravitational Wave Open Science Center

  - data access, data distribution, tools and tutorials

- Einstein Toolkit

  - open-source numerical relativity software with 400+ registered users

## Education and training for the CE community

- scientific tools and tutorials, and how to make them available
- PhD schools and workshops as training opportunities
- ECR one-day meetings that are explicitly for astrophysicists/astronomers to meet with GW ECRs
- Postdoc Days
- ECRs travel to ET-associated groups (in Europe) to give talks and build community for the two next-gen detectors
- reframe CE and ET as a global collaboration

# Mentoring and early career researchers

Successful example: LISA ECS voluntary mentoring program pairing ECS with a senior mentor

- Small time commitment – meet for an hour monthly/bi-monthly or so
- Can borrow the LISA/LSC organizational elements
- Needs a couple of leaders

Also from LISA ECS

- working group co-chairs have 2 LECS members and 2 senior scientists

## Engagement with the local community

- **CE site evaluation community building**
- CE Symposium public lecture and "ask a scientist" panel for the "Young Scholars" summer research program offering research experience for high-school students from the Midwest (today!)
- Create informal presentations for a few audiences that anyone can give (esp. PhD students and Postdocs)
  - CE Pub talk
  - University group or Journal Club meeting topic
  - Poster tuned for new student tours, etc

# Cosmic Explorer Consortium

- open to join

- engagement and structure

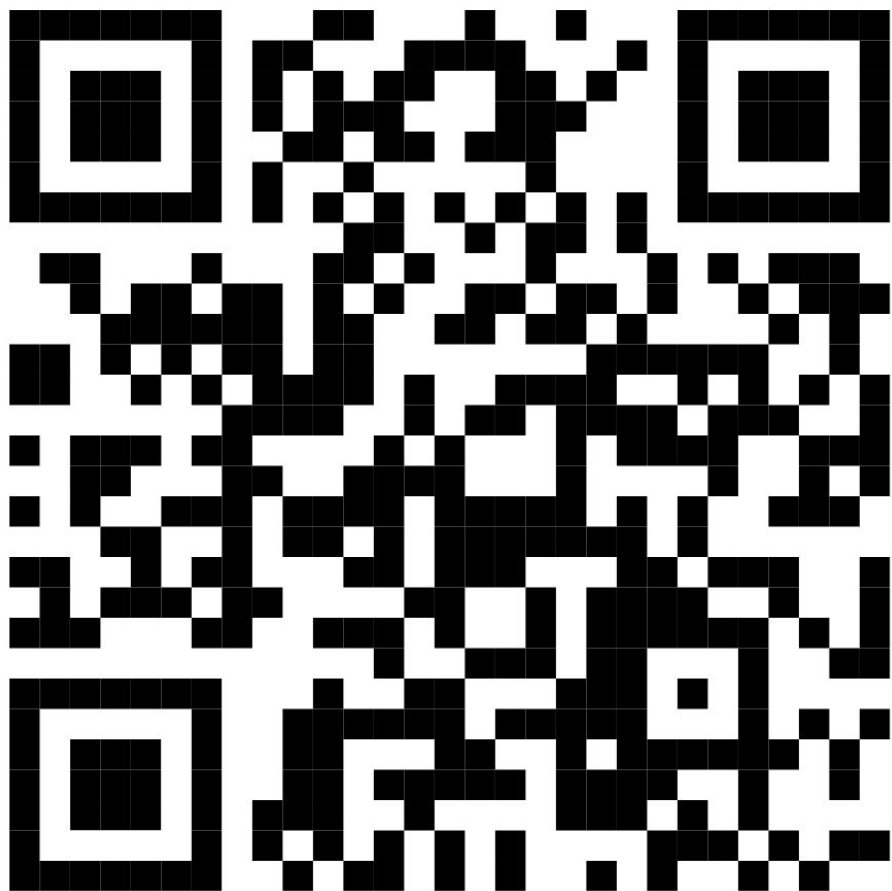
  - STM and science seminars

  - CE Symposium and workshops

- **early career group and activities - please join!**

- research funding opportunities addressing project priorities

**Travel Request (US institutions only)**



**Participation in STM Study**

