

# **Four Corners discussion summary**

**What's a project you would like to do, but don't have the expertise for? How might EuCAPT help with this?**

## A few ideas about how EuCAPT might help

- Online, interactive lectures at various levels. Seems low cost and could be a great opportunity for younger researchers to lecture/talk!
- Sometimes researchers have ideas suitable for students, but not enough students. Could EuCAPT help put researchers in touch with students through something besides a mailing list?

**Do we need a more structured interface for theorist-experimentalist interactions? If so, what should this look like?**

# Do we need a more structured interface for theorist-experimentalist interactions?

- **Interactions are essential** (theory/experiment/data analysis), many benefits from exchanging knowledge, mitigate cultural divides between communities
- **open data, open code**, + documentation, longer postdocs to for this extra work
- small-scale interactions, reconvening with a larger group

## What should this look like?

- online working groups
- EuCAPT seminars on the state of the art in the fields, accessible to non-experts
- PhD/PD schools to train and interface between experiment and theory
- Data analysis/processing/calibration training workshop for those new to the field
- Common database / platform with theorists and experimentalists structured by topics and approaches (can contact experts from different communities)
- Workshops encouraging interactions:
  - Focused on a specific topic
  - only a few talks
  - Participants from both theory and experiment, only a few people from each community to prevent staying within one's own network

**How can we best support young scientists in collaborations? More broadly, how can we increase diversity and representation in our field?**

How can we best support younger  
scientists?

More broadly, how can we  
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representation in the field?



New observationally-driven field:  
must be forward looking and build a  
more inclusive and equitable  
community

*Leverage excitement and public interest in black holes,  
ripped in spacetime curvature*

New observationally-driven field:  
must be forward looking and build a  
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community

*Leverage younger generations, society is changing,  
engage not just under-represented minorities (URM)  
but also senior folk*

New observationally-driven field:  
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more inclusive and equitable  
community

*Diversity is not only gender — LGBTQ, ethnicities, physically impaired...*

# Workshops

Travel funds (also for childcare)

Non-western countries, science is moving to bigger collaborations and global

Thoughtful and structured organization including speakers and discussions (inclusive list)

Online participation (?s in real time, slack etc) esp. for those who cant travel

Use training networks to help mentor students/postdocs

# Hiring

Train committees to be sensitive for URM hiring (not just HR requirement)

Coordinate hiring processes with regards to applications

Cross-institution hiring process (esp. those with specific personal situations)

# Mentorship

Meaningful not just on paper

Professional and personal guidance

Channel in which problems are dealt with in a safe and anonymous way (no blowback on reporter)

# Unionize

Postdocs, PhDs

**The European Consortium for Astroparticle Theory (EuCAPT) aims to bring together the European community of theoretical astroparticle physicists and cosmologists. What do you think should be the priorities of EuCAPT?**



# EuCAPT

- Define theory roadmap (see “decadal survey” / Snowmass)
- Contribute to other initiatives (LISA FP WG/ US decadal/ EU Strategy for PP)
- Attract and support young scientists (e.g. mobility)
- Promote interdisciplinary activities
- Outreach and dissemination (diversity/inclusivity)
- Attract funding (ITNs, etc.)
- CERN tunnels as multi-purpose facilities (100 km circular GW detector?)