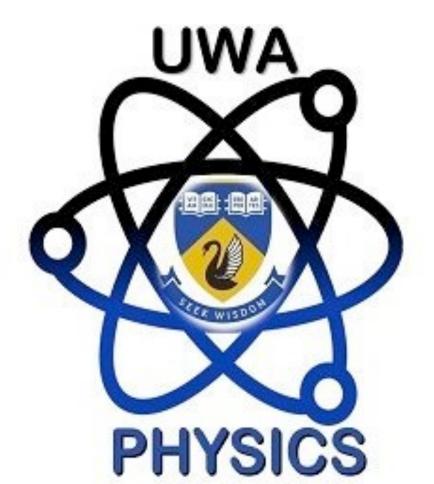


International Centre for Radio Astronomy Research



UWA Master of Physics (Astronomy and Astrophysics)

Intro session to 2024 degree

Luca Cortese (he/his/him)

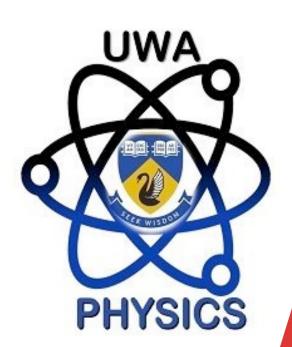
Interim ICRAR-UWA Science Director







International Centre for Radio Astronomy Research



Kaya: Hello! Welcome! Wandjoo!

We acknowledge that Aboriginal and Torres Strait Islander people are Australia's first astronomers.

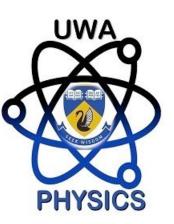
We acknowledge their long-standing systems of knowledge on which we continue to build and we acknowledge the Traditional Custodians of the unceded lands on which we are meeting today.

We are on Wajuk Noongar boodja, Wajuk Noongar country, and we pay our respects to their Elders past and present, and extend that respect to all First Peoples joining us here today.

We acknowledge the Wajarri Yamatji as the traditional owners of the Murchison Radio-astronomy Observatory site.



Welcome to the University of Western Australia

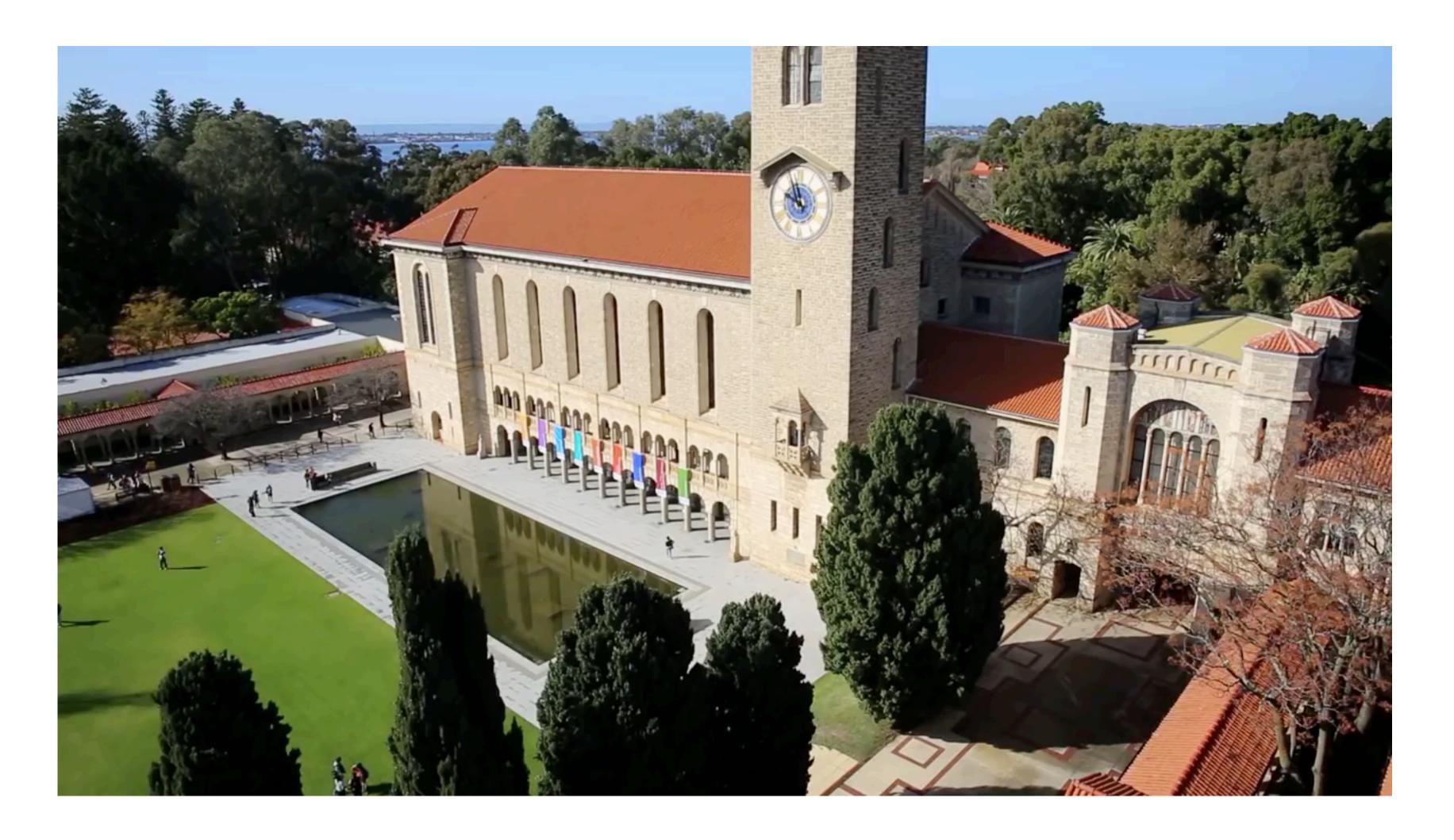


Member of the prestigious Group of Eight universities



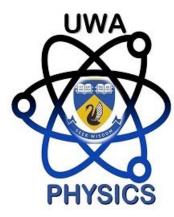
Ranked 90th in the world in the QS World University Rankings 2023







Housekeeping



Hybrid format: face-to-face and webinar simultaneously



On-line participants



Make sure you are muted



Post questions using Q&A function at any time











person participants



reel free to ask questions at any time





This session is being recorded



Unanswered questions will be addressed via email after the event





Stay close to the computer

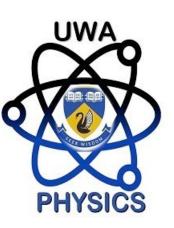


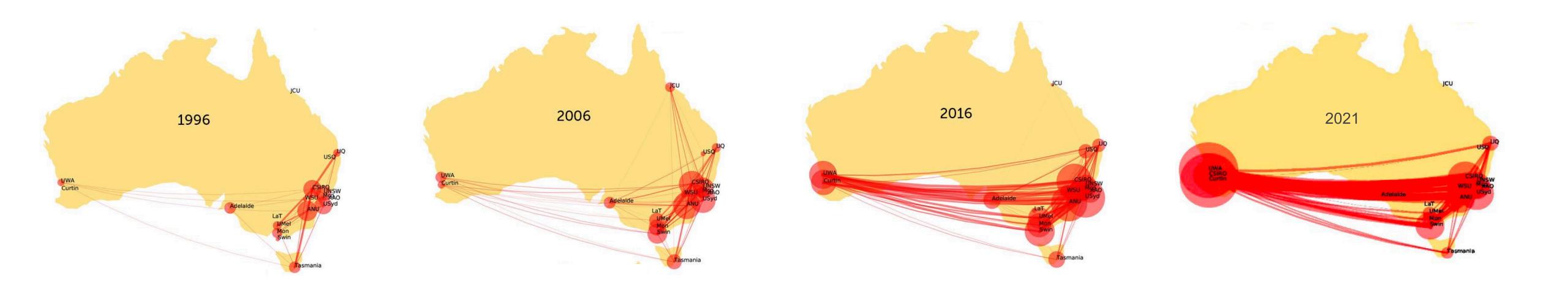
Please repeat questions from the audience





Astronomy & Astrophysics in Western Australia





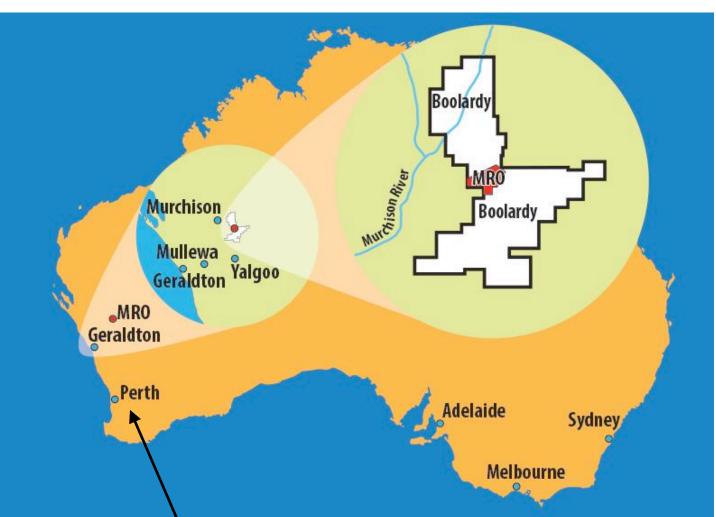
Significant growth (investment and people!) in the astronomy sector in WA in the last ~15 years

Roughly one third of the Australian astronomy community is now based in WA



The Square Kilometre Array





SKA computing in Perth:
Pawsey supercomputing centre
and
Australian SKA Regional Centre
(AusSRC)







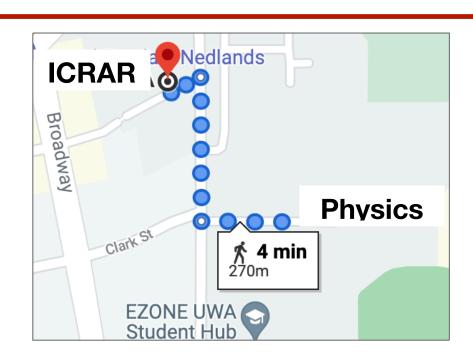


Astronomy & Astrophysics at UWA



The International Centre for Radio Astronomy Research

Department of Physics



Well above world standard!

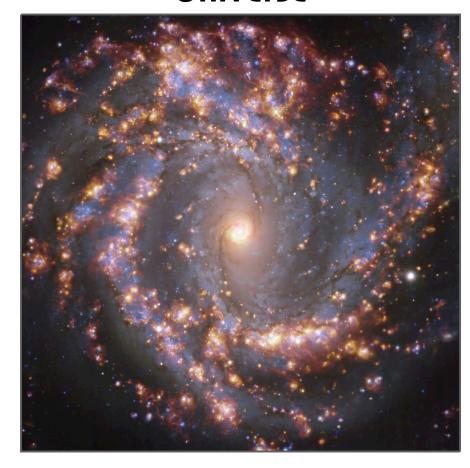


0201 Astronomical and Space Sciences

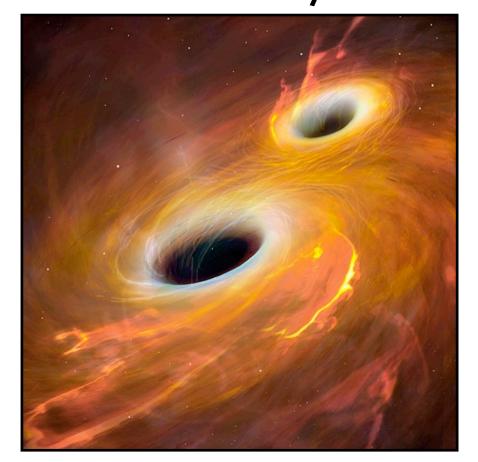




The gas cycle in the local Universe



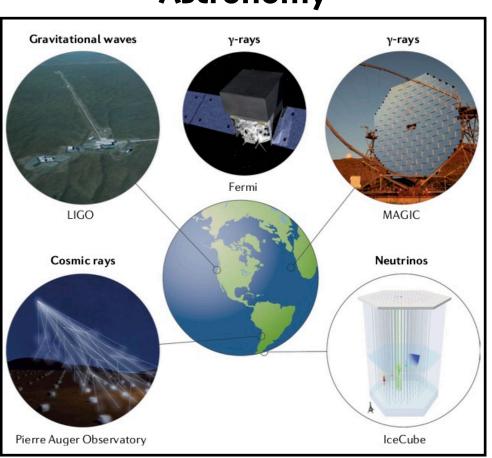
Gravitational Wave Astronomy



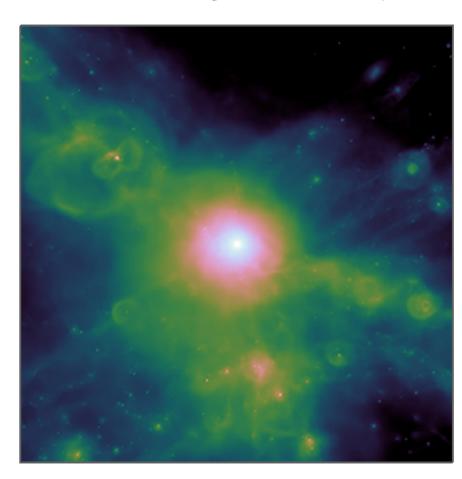
The distant Universe



Multimessenger Astronomy



Cosmological Theory



Astrophotonics



>\$60M investment in Astronomy



Master of Physics (Astronomy and Astrophysics)



Advanced Coursework Units

Galaxies and Galactic Dynamics

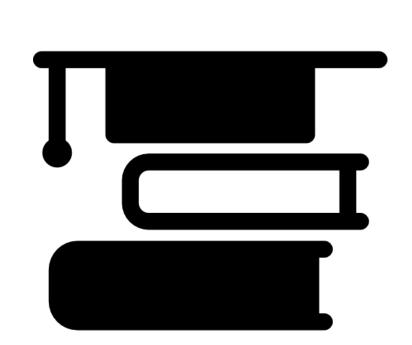
Radio Astronomy and the Interstellar Medium

<u>Gravitational Wave and Multi-messenger Astronomy</u>

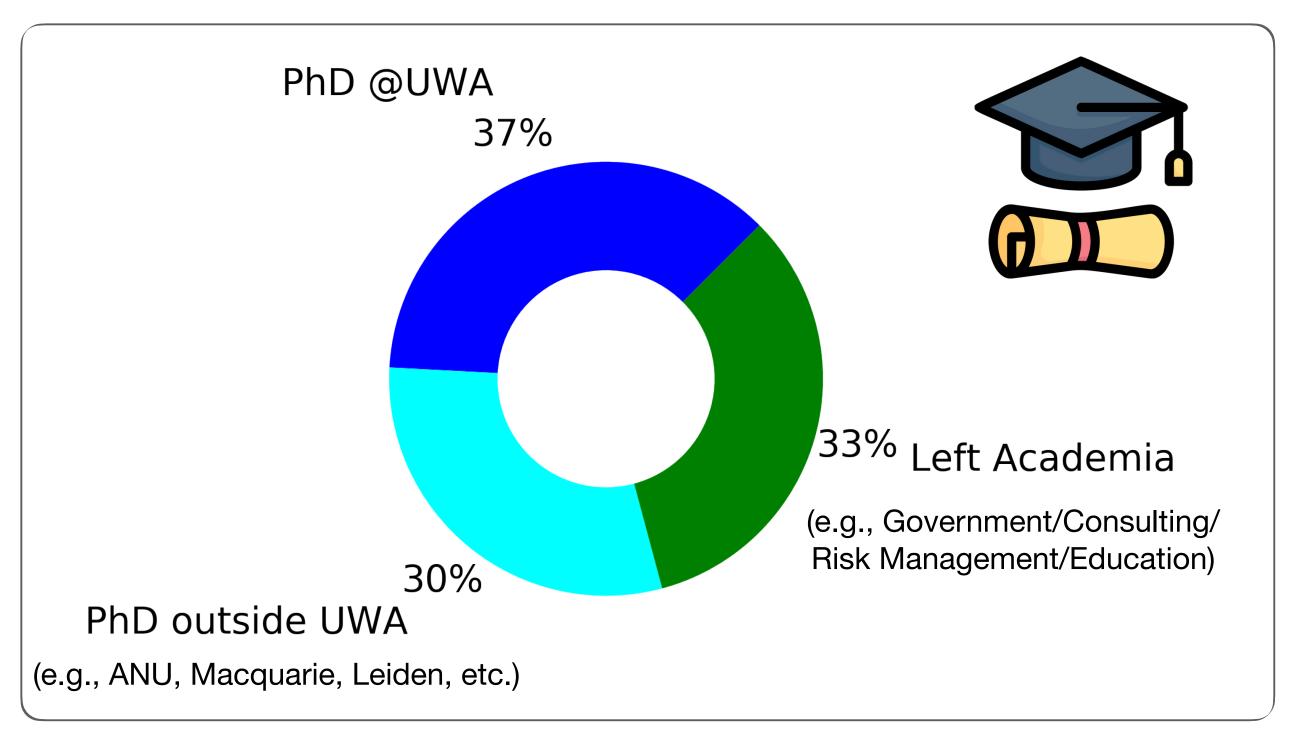
Cosmological Physics

Computational Statistics for Physics

and more...!



Transferrable skills!





Focus on student experience!



Make the most of what UWA offers to postgraduate students!

Research/Coursework

- Desk/Desktop
 - Your place where to study, do research and interact with staff and students
- Research group meetings
 Discuss with your supervisor
- Seminars/Journal Club
 Hear the latest about the research work done
 At UWA and/or world-wide
- Student's Plot of the Week
 Students-only event to discuss research and socialise

One of the most supportive environments in Australia!





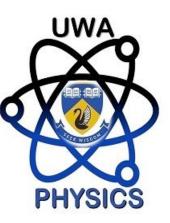
Training/Support Network

- Mentors
 - PhD student/ECR/Staff to provide one-on-one support and expand network
- Development, Equity and Inclusion Initiatives
 Training (Mental Health, Resilience, Writing workshops, etc)
 Wards support network in case of confidential issues
 Anonymous feedback (on-line form or pigeon-hole)

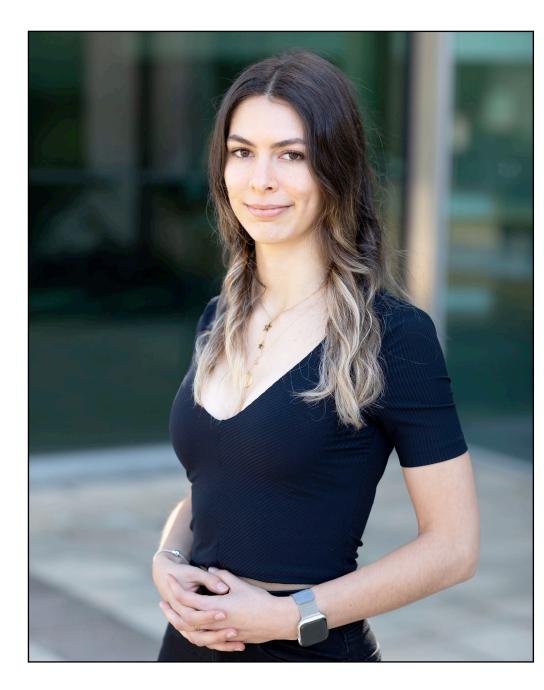




Some Success Stories



Madeleine McKenzie



2021 Astronomical Society of Australia Bok Prize for best Masters Dissertation

Alex Moroianu



First author publication on Nature Astronomy

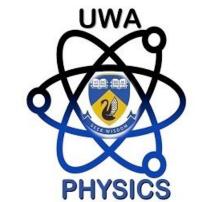
William McDonald



2023 Astronomical Society of Australia Bok Prize for best Masters Dissertation



The program for today



10:10-10:30	Enrolment and Coursework
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Matthew Young



10:30-11:00

11:00-11:10

11:10-12:10



Eloise Moore Samuel Hansen



Linging Wen



An overview of UWA's research areas

A chat with former M(Phys) students \bigcirc





Gravitational Wave Astronomy

The gas cycle in the local Universe

Multi-messenger Astronomy





The distant Universe

Cosmological Theory

Astrophotonics

Sabine Bellstedt



Claudia Lagos



David Gozzard



12:10ish

End - light lunch for those attending in person

