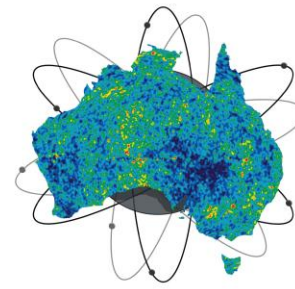


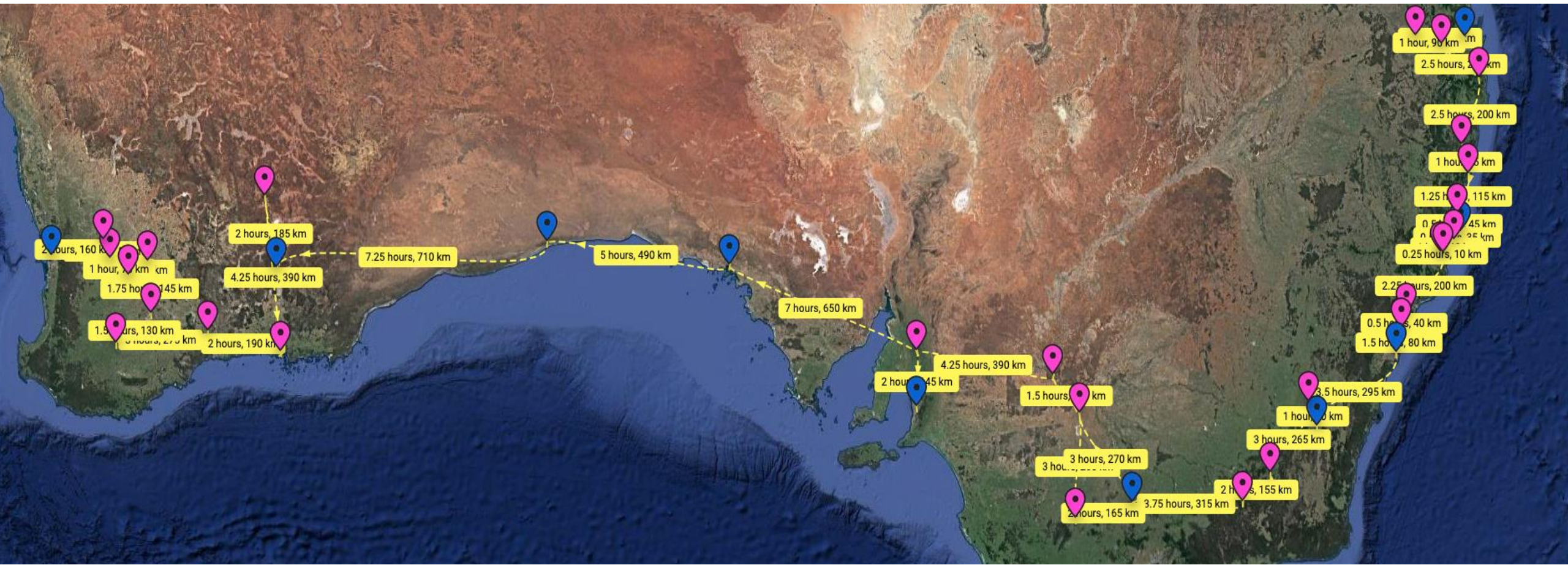
# NATIONAL Quantum & Dark Matter ROAD TRIP



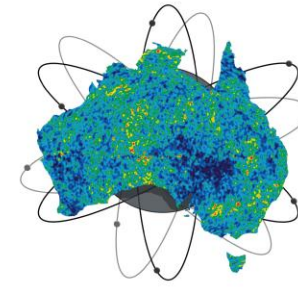


# NATIONAL Quantum & Dark Matter ROAD TRIP

## What's the Road Trip?



# What's the Road Trip?



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

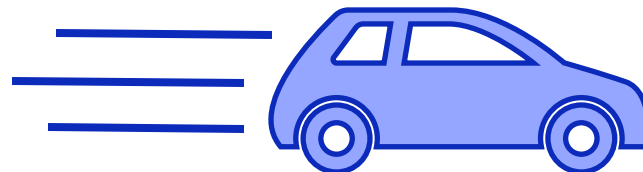
## **national science week**

An Australian-wide celebration of science and technology that runs every year in August.

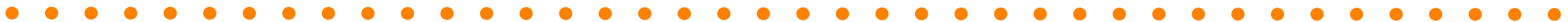
The Quantum Dark Matter Road Trip travelled to Schools and public spaces to take our science around Australian Communities!



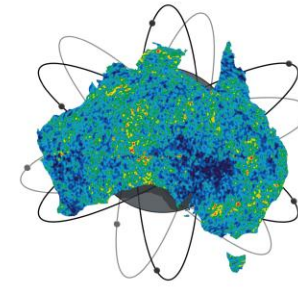
**Brisbane/  
Meanjin**  
8th August



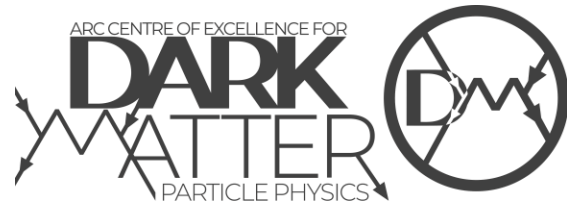
**Perth/  
Boorloo**  
26th August



# Who Went?



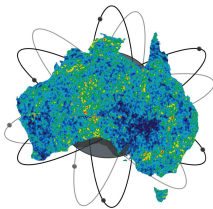
**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**



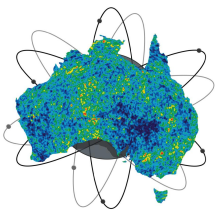
Collaboration of Australian Universities for research into *Quantum machines* and *Quantum Physics*

# CDM Road Trippers

- Ben McAllister – Swinburne / UWA
- Elrina Hartman - UWA
- Emily Filmer - Adelaide
- Giorgio Busoni - ANU
- Graeme Flower - UWA
- Harish Potti - Adelaide
- Irene Bolognino - Adelaide
- Jackie Bondell - Melbourne
- Jeremy Bourhill - UWA
- Matt Gerathy - Melbourne
- Raghda Abdel Khaleq - ANU
- Renee Key - Swinburne
- Will Campbell - UWA



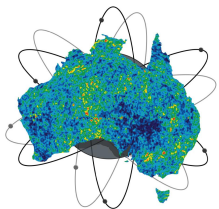
**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

# CDM Support

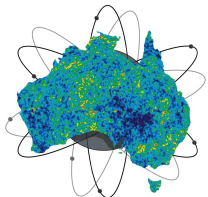
- Fleur Morrison
- Jackie Bondell
- Linda Barbour
- Anita Vecchies
- Kylie Hamill
- Michelle Abbott
- Node administrators



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

# Statistics

- 12,000km driven between Brisbane and Perth (2 cars) over 3 weeks
- 2000 people engaged with
- 40 cities and towns
- 25 regional and remote schools
- 14 Public events
- 24 Road trippers across CDM and EQUS
- 100s of hours of preparation
- Tons of fun



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

**Quairading Hotel**

**TRIVIA NIGHT**

Join the National Quantum & Dark Matter Road Trip in Quairading for an evening of pub trivia with a twist of science!

**FREE ENTRY!**

**Fun! Trivia! Prizes!**

**Teams of up to 6 people**

**25 August 2022**

**7:00-9:00 pm**

**national science week**

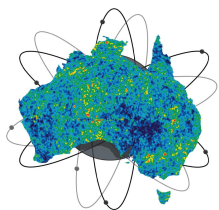
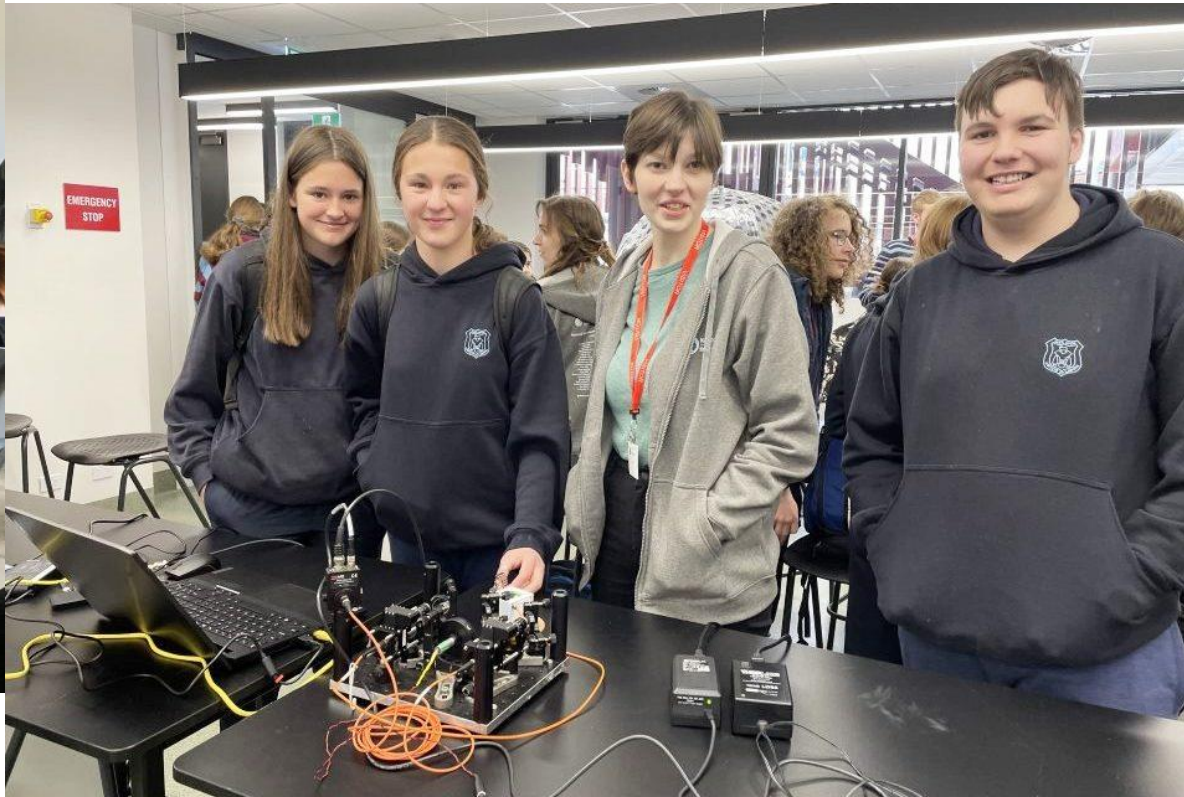
An Australian Government Initiative

Inspiring Australia

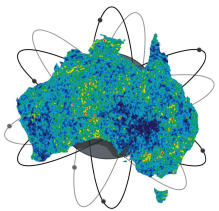
**DARK MATTER**  
PARTICLE PHYSICS

**EQUS**  
Australian Research Council  
Centres of Excellence for  
Engineered Quantum Systems





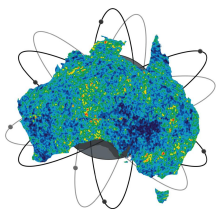
**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**



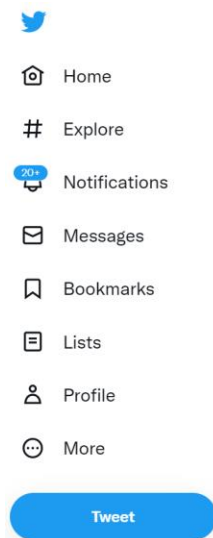
**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

# Promotion

- Road Trip website
- NSW website
- Social media – Twitter, Instagram



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**



ROAD-TRIPPER



Will Campbell

PhD student

CDM & EQUS

University of Western Australia

Road-tripping Bendigo to Adelaide

**What do you do?**

My work involves looking at certain crystals, which vibrate at specific tones, much like a guitar string vibrates to make sound. We analyse this vibration to see whether any cool and interesting new particles are interacting with it, such as dark matter or gravitational waves.

**How did you get to where you are today?**

I always wanted to be an engineer and studied the required maths and physics to get into engineering. Slowly along the journey I fell in love with physics and the deeper understanding that comes with studying it. Also the people in physics are all great.

**What's the best thing about your role?**

The best thing about my role is being a small part of the cutting-edge developments that will shape the next generation of technology in the world; it's always inspiring and never dull.

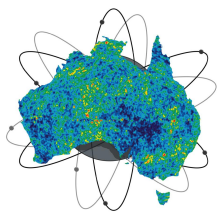
**What advice would you give to someone considering studying physics?**

If you're currently studying physics or science, find out which part you enjoy the most and stick with it, it only ever gets more interesting and more fun as you delve further into it.

**What do you enjoy doing besides physics?**

Outside of physics, I love playing and watching AFL as well as playing a bit of music here and there.

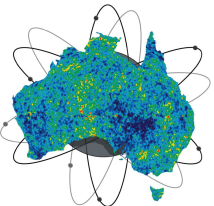
[VIEW ALL ROAD-TRIPPERS](#)

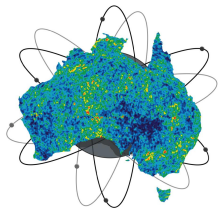


**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

# Feedback

- Top responses to how people would describe the experience
  - *Interesting, fun, cool, informative, educational*
- Top responses to how people would describe physics
  - *Interesting, cool, confusing, hard, fun*
- Was there anything about this experience that could be improved?
  - *Less talking, more interactive, more demonstrations, more hands on activities, more time, more pictures, show videos of dark matter, more prizes, more question time*
  - *“No, it was perfect”, “Nothing, it was amazing”, “No, it was awesome”*





**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

# Media Highlights

## Bendigo Advertiser

Dark Matter and quantum  
unpacked in nationwide  
science road trip

Lucy Williams • 2hrs ago



Kalgoorlie Miner | Goldfields | Regional WA

### Quantum physics and dark matter explored by Eastern Goldfields College Year 12 students

Madeleine Clark | Kalgoorlie Miner  
Thu, 25 August 2022 4:00AM



MANNING RIVER  
**Times**

### Teaching Dark Matter to bright young minds



### Research roadtrip bringing science to kids in the bush

11/03/2022 11:50 AM / 05:23

SHARE THIS PODCAST



RURAL NEWS

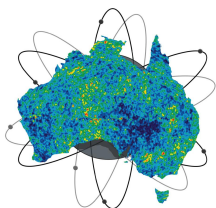


Yass Valley Times

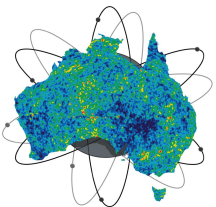
HOME CLASSIFIEDS SUBS

### QUANTUM AND DARK MATTER ROAD TRIP AT YASS HIGH SCHOOL

Sep 9, 2022 | General | \*\*\*\*\*



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**



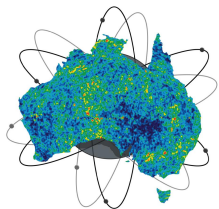
**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**



# Media Highlights

Prior to the road trip, EQUS and CDM members were invited to express an interest in speaking to the media throughout the event. Nine road trip participants, including students, had the opportunity to speak to newspaper, television and radio media. Media included:

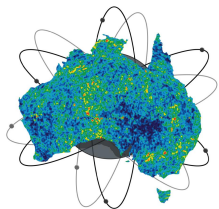
- AAP (syndicated across 100+ titles)
- ABC Bendigo
- ABC Goldfields and Esperance
- ABC Goulburn Murray – *Ben McAllister*
- ABC Great Southern – *Emily Filmer*
- ABC Midwest and Geraldton
- ABC Newcastle
- ABC Radio Melbourne
- ABC Statewide – *Ben McAllister*
- ABC Wimmera – *Jackie Bondell*
- Bendigo Advertiser
- Bendigo Hit FM – *Ben McAllister*
- Byron Bay FM – *Renee Key*
- Camden Haven Courier – *Giorgio Busoni*
- Canberra Life
- Canberra Weekly
- Kalgoorlie Miner
- Manning River Times
- Noongar Radio – *Jeremy Bourhill*
- The West Australian – *Jeremy Bourhill*
- Weekly Advertiser Stawell
- WIN News Toowoomba (syndicated across Qld) – *Renee Key*
- Yass Valley Times – *Ben McAllister*
- 2GB/3AW – *Ben McAllister*



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

---

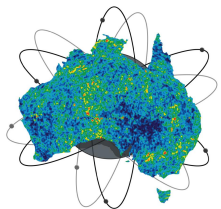
# Personal Highlights & Lowlights



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

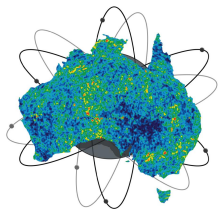
---

# Personal Highlights & Lowlights



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

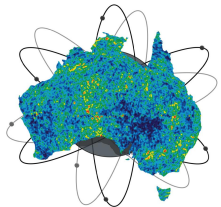
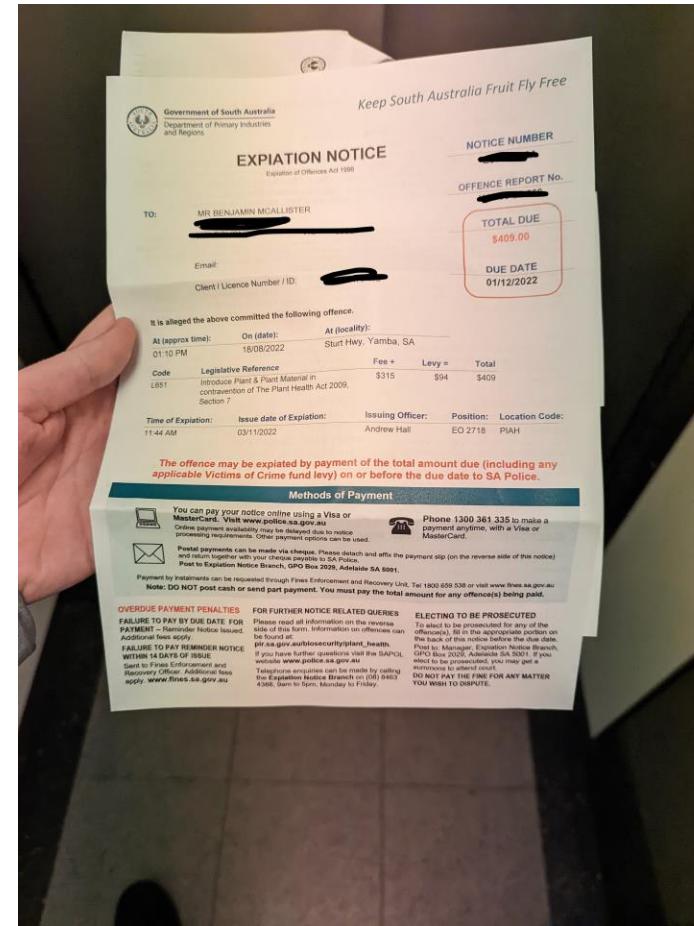
# Personal Highlights & Lowlights



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

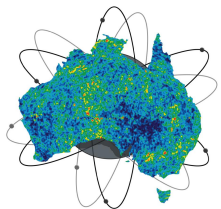
---

# Personal Highlights & Lowlights



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

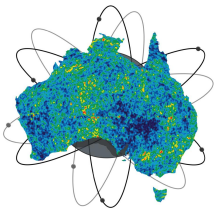
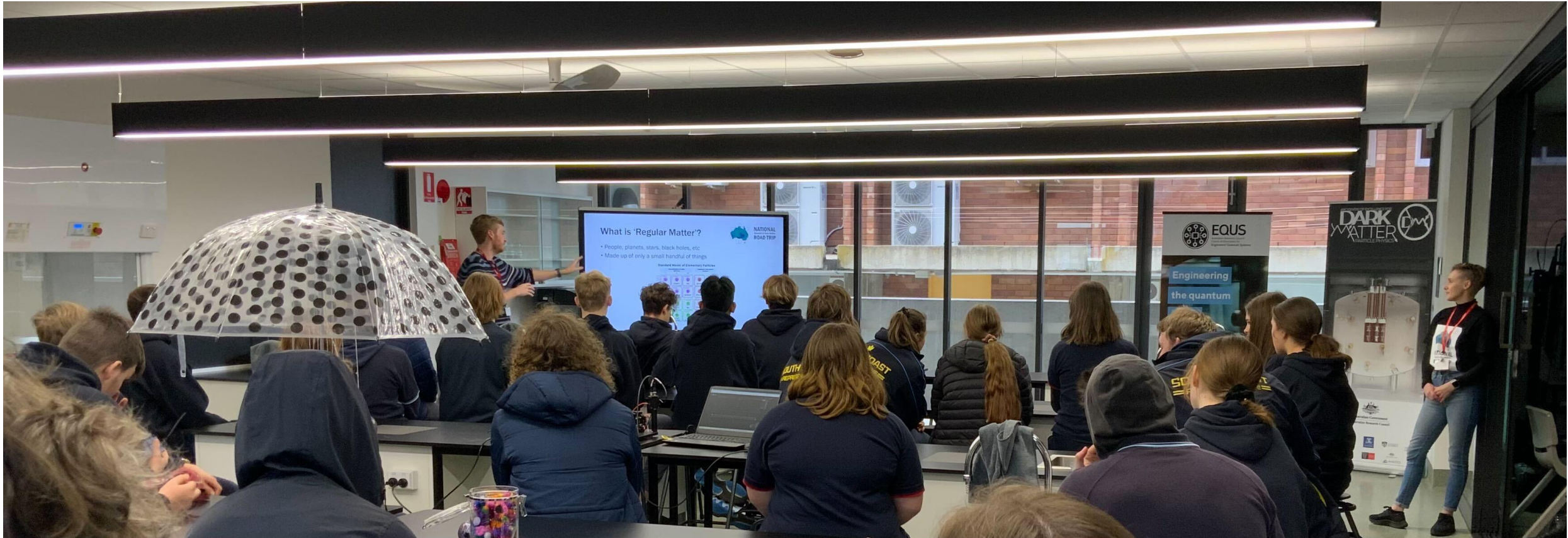
# Personal Highlights & Lowlights



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**

---

# What next...2023?



**NATIONAL**  
Quantum & Dark Matter  
**ROAD TRIP**