

Australian Updates for IPPOG

Jackie Bondell – Senior Education and Outreach Manager @ARC_DMPP IPPOG Spring Meeting - Madrid







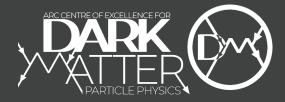








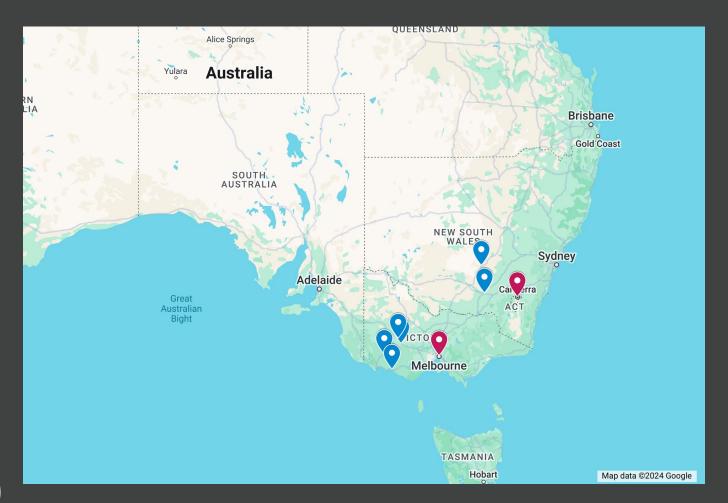
Outreach Updates: What we did this year...







- Sessions with ~350 Year 7 students at our VIC Partner Schools
- Additional sessions with all Year 8 and 9 students at specific schools
- Additional sessions with all Year 11 and 12 Physics students at the VIC partner schools
- Melbourne Graduate School of Education collected first data for analysis
- Opportunities for ECRs to engage with students

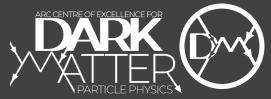






Extended Investigation Project

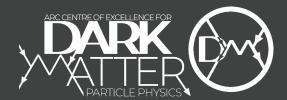
- Creating opportunities for research experiences for rural students
- Mentored by CDM PhD students and postdocs



Teacher and Student Programs



- Multiple regional and national STEM workshops for teachers and students
- Targeted Dark Matter workshops for teachers
- Article for SA Science Teachers
 Association on incorporating DM topics into the curriculum

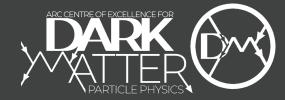


Teacher and Student Programs

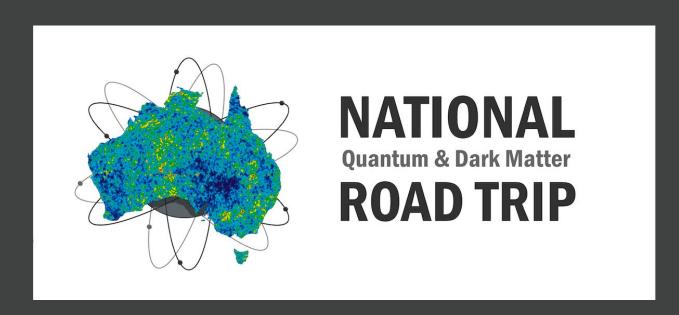




Quantum and Dark Matter Road Trip



Quantum and Dark Matter Road Trip



- 18 schools and 12 public events
- 1600+ people engaged
- Regional and remote NSW, QLD, and VIC
- Lectures in metro cities
- 4750 km



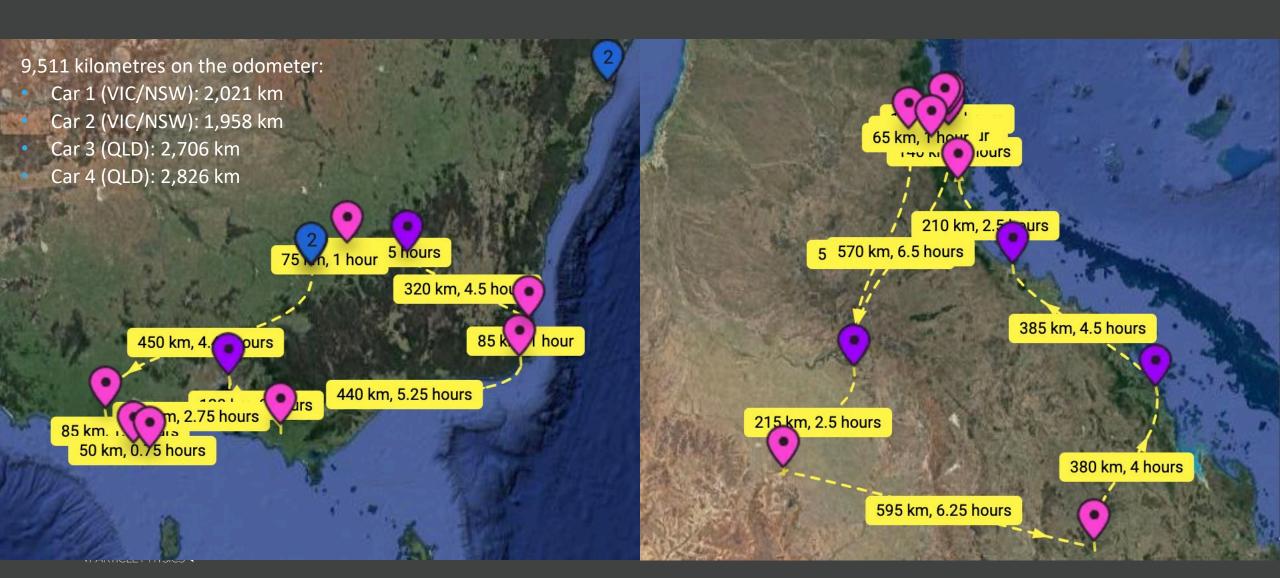
Quantum and Dark Matter Road Trip







4,750 kilometres, 24+ cities & towns



1,600+ people engaged

- 900 school students
- 160 pub-goers
- 420 public talk or lecture attendees
- 120 attendees at other public events











2,400+ items of merch

- 1,600 stickers
- 220 bags of jelly beans
- 64 fridge magnets
- 16 seed packets
- 500 EQUS/CDM merch
- 4 (smaller) car magnets
- 36 t-shirts
- 10 hoodies
- centro extended to the control of th







Lots of memories!







Outreach Updates: Media and Comms



Our 2023 campaigns - highlighting women in science

CAREER DEVELOPMENT

Female Scientists no Longer in the Shadows

Scientist travelling around Australia to show girls the real face of science.

EMILY FILMER, ARC CENTRE OF EXCELLENCE FOR DARK MATTER PARTICLE PHYSICS MEMBER AUG 22, 2023



The face of science is changing.

I was three years old when I told my parents I wanted to be a physicist. Growing up in a household full of science and engineering - my mother a GP and my father an engineer - my passion was encouraged and nurtured.

This Australian scientist is pushing for more girls to aspire to work in physics

The new president of the Australian Institute of Physics, Nicole Bell, says a whole-of-society effort is needed to see more women in science, including in the field of physics - and the efforts need to be directed at young girls.



Australian institute of Physics President Nicole Bell says it will take sustained effort to ensure there are more women in the field of physics in the next 20 years. Source: AAP / Matt Turner

KEY POINTS

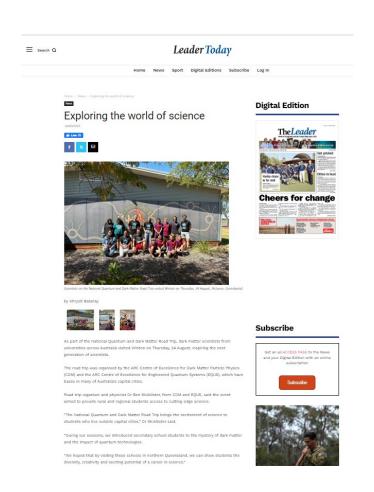
Politics Immigration Indigenous Environment Life

- The International Day of Women and Girls in Science is being observed on 11 February.
- The new president of the Australian Institute of Physics says females remain underrepresented in physics.
- The government is undertaking a review on how to improve the pathways for females to work in the sciences.





National Quantum & Dark Matter Road Trip









Dark Matter Day, SUPL, CELLAR



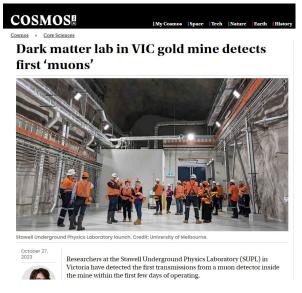


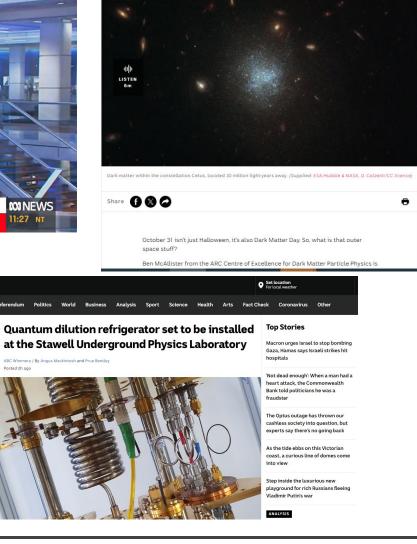
001NEWS



Boon for Stawell dark matter research teams







ABC RADIO MELBOURNE | MELBOURNE MORNINGS ->

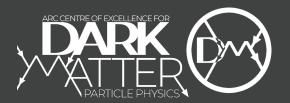
ABC Radio Melbourne Broadcast Tue 31 Oct 2023 at 8:30am

What is dark matter?

Muon Detectors for Schools



- mDetect Muon Detectors developed in collaboration with CDM members initially being utilized for mining
- CDM is working with Swinburne's Alan Duffy and secondary Physics teachers to develop lessons to pilot these muon detectors in secondary labs



Node Kits for Outreach



- Kits with equipment and instructions to go to CDM node universities
- Developed from CDM HQ to allow researchers to focus on outreach
- Support local outreach at nodes
- Includes accessible materials



Key takeaways!



- Unique approaches to Australian-specific challenges
- Create connections with geographically diverse audiences
- Supporting ECRs to develop their outreach and communication skills
- Use outreach to build community among centre researchers

