



THE UNIVERSITY *of* EDINBURGH
School of Physics
& Astronomy

Institute for Particle & Nuclear Physics - News

Why create & share news?

open up opportunities for
collaboration / partnership
/ funding etc

attract
students / staff

raise
awareness

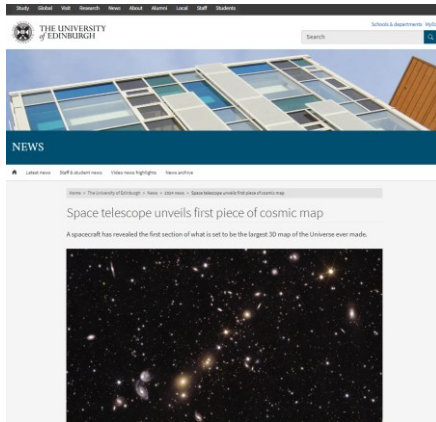
build community /
audience

manage
reputation

complete an action
(e.g. sign up to an
event)



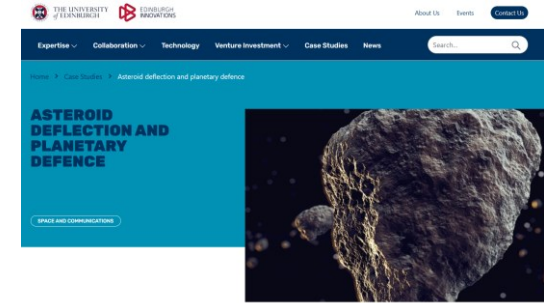
IPNP news



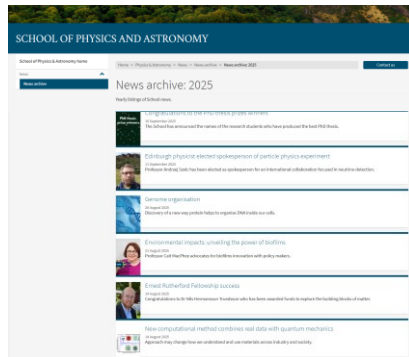
UoE News



Edinburgh Impact



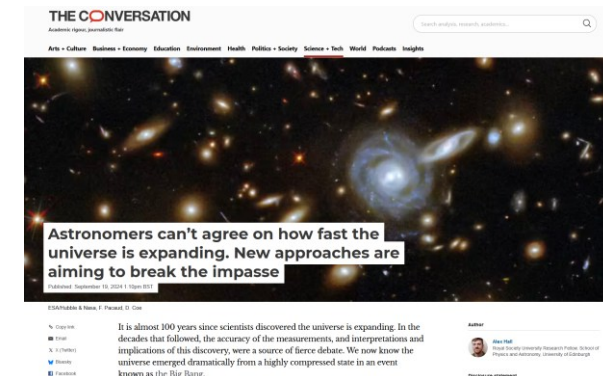
Edinburgh Innovations



SoPA News



CSEC News



The Conversation



Heavens need environmental protection like Earth



- press release, web news story, social media
- press coverage: Times, BBC Newsround, BBC Focus (magazine), Scotsman and Metro.

3D-printed chip showing body's reaction to drugs could end need for animal tests



▶ Liam Carr and his supervisor Adriana Tavares with the 'body-on-chip' device. Photograph: Murdo MacLeod/The Guardian

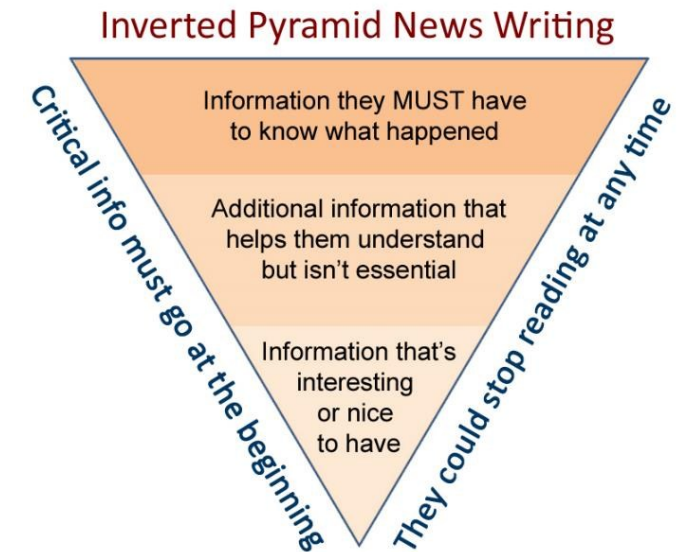
- contacted by industry interested in developing new systems
- TED talk
- 30 enquiries

**The
Guardian**
Newspaper of the year



What we require from researchers

- Simple language for general readers – 2 paragraphs
- Important facts/results first
- Key background information & stats
- Who, what, where, when, why, how?
- Lively quotes from key people
- Images – capture the public's imagination



Communication channels

Social media



Newsletters/email & digital screens & blog

THE UNIVERSITY of EDINBURGH
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and Astronomy

January 2025

Welcome

I hope you managed to have a relaxing and enjoyable break, to catch up with family and friends, and to come back refreshed and enthused for a new semester. I would like to extend a particular welcome to the visiting undergraduate students who have joined us this semester.

The start of a new year is a good time to evaluate your aspirations and set achievable goals, and the University has resources to help in this regard. Some suggestions to help you grow both academically and personally include:

- [brushing up on your study skills](#) (visit the [Institute for Academic Development undergraduate or postgraduate taught](#) webpages for courses and resources)
- [updating your CV](#) (check out the [Careers Service CV](#) tips and examples)
- [trying something new](#) (visit the [EUSA Activities Fair](#) on 15 January for inspiration)

Whatever you decide, I hope you make the most of the services available at the University. Have an enjoyable semester.

Prof Philip Best
Head of School



School resources

A single link to School resources can be found here:

- [SAPA Student Resource](#)

This contains links to:

- the [School Information Website](#) (resources to support your learning and development)
- the [School Blog](#) (inspirational stories from and about students)
- [academic resources](#), wellbeing guidance and events.



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Poster evening

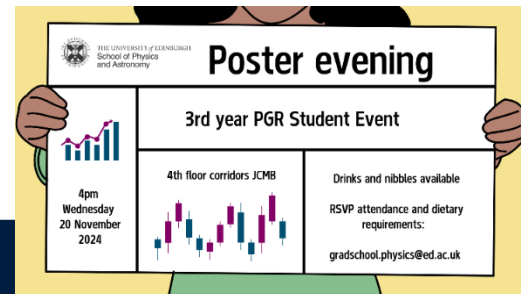
3rd year PGR Student Event

4pm
Wednesday
20 November
2024

4th floor corridors JCMB

Drinks and nibbles available

RSVP attendance and dietary requirements:
gradschool.physics@ed.ac.uk




SCHOOL OF PHYSICS AND ASTRONOMY

The physical world

POSTS

14TH DECEMBER 2024
A day in the life of a physicist on beamtime



16TH DECEMBER 2024
Colin is a first year PhD student doing a PhD in experimental condensed matter physics, studying materials at extremely high pressure. In this blog post he gives you a sneak peek of his first day working on an experiment at a synchrotron, the most intense and exciting part of being an experimentalist in the field.

[Continue reading](#)

ABOUT

Ranking and leading in physics and astronomy - stories from the School of Physics and Astronomy community at the University of Edinburgh.

RECENT PASTS

Alan Fowler - The 'father' of laser in the School of Physics and Astronomy 20th Nov 2024

Academic excellence - Prof. Best, new Head of the School of Physics and Astronomy 20th Nov 2024


Love and Physics - Renewable energy and environmental science together 19th Nov 2024

Search

CATEGORIES

- Activities
- News
- Events
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- Conferences
- Competitions
- Conferences
- Equality, diversity & inclusion
- Events & Assessments
- History
- Internships and Placements
- News
- Postgraduate Study
- Public Engagement
- Research
- Staff
- Students
- Study Abroad
- Teaching
- Transferable skills
- Undergraduate Study

21ST NOVEMBER 2024
Mapping the stars: galactic archaeology and the quest for diversity



21ST NOVEMBER 2024
A journey towards representation in academia



Successful content



August 2025

School of Physics and Astronomy, University of Edinburgh
1,260 followers
6mo • Edited •


Congratulations to Dr Nils Hermansson Tuedsson on being awarded the prestigious Ernest Rutherford Fellowship by the Science and Technology Facilities Council (STFC) ([UK Research and Innovation](#)) #

As a leading theoretical physicist, Dr Hermansson Tuedsson investigates hadrons—particles made of quarks and gluons—by exploring the strong force. Using advanced simulations and mathematics, his research tests the validity of the Standard Model, addressing unanswered questions like the origin of matter-antimatter asymmetry.

His leadership will foster innovative research, merging analytical and computational techniques to explore exciting new physics possibilities. 📖

<https://lnkd.in/eTKDY16a>

#TheoreticalPhysics
#Innovation



Impressions: 4,089
Clicks: 185
Reactions: 99

November 2025

School of Physics and Astronomy, University of Edinburgh
1,260 followers
3mo • Edited •

What is the mysterious substance that makes up around 80% of all matter in the universe? 🌌

Visitors at the New Scientist Live event in London stepped into a life-sized detector to find out!

At the 'Underground Dark Matter Searches UK' stand - designed by researchers from the University of Edinburgh - attendees engaged with hands-on activities explaining dark matter and a Cosmic Cube detecting live cosmic rays.


They also entered a walk-in detector to hunt for dark matter signals. The detector used data from the LUX-ZEPLIN dark matter experiment, which is located 1 mile underground in South Dakota, USA, to light up 240 LEDs.

What is dark matter? 🤔
Scientists are not sure yet, but they know it makes up 80% of the matter in our universe, and that it shapes galaxies and holds cosmic structures together. One idea is that dark matter may be a new fundamental particle - called a WIMP (Weakly Interacting Massive Particle).

The hunt for WIMPs takes place deep underground where experiments, such as LUX-ZEPLIN, are shielded from cosmic rays. Several sites are being considered to host the next generation dark matter detector, including the UK's Boulby Underground Laboratory, which will take us even closer to answering one of the greatest mysteries of modern physics...

<https://lnkd.in/eWj2Jz1>

#DarkMatter



Impressions: 1,003
Clicks: 175
Reactions: 18

December 2025

School of Physics and Astronomy, University of Edinburgh
1,260 followers
3mo • Edited •

An international collaboration of scientists working on the MicroBooNE experiment announced that they have found no evidence for a fourth type of neutrino.

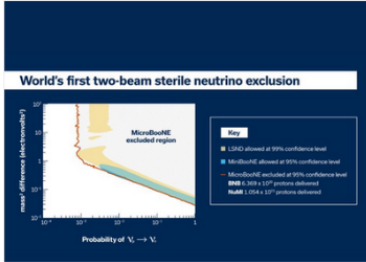
Earlier physics experiments saw neutrinos behaving in a way inconsistent with the Standard Model of particle physics. Theorists have suggested that a sterile neutrino could explain those anomalies.

However, with this new result, MicroBooNE has been able to rule out a single sterile neutrino explanation with 95% certainty.

Read full article and Edinburgh involvement: <https://lnkd.in/eBKN1BNC>

Image: Previous experiments indicated where a fourth neutrino may be observed. MicroBooNE scientists have ruled out the region where a single sterile neutrino may have been found with 95% certainty. The collaboration combined data collected from two different neutrino beams to achieve this result. Credit: MicroBooNE collaboration

@Fermilab
#neutrinos



World's first two-beam sterile neutrino exclusion

Plot showing mass difference $m_4 - m_3$ (eV) vs. Probability of $\nu_e \rightarrow \nu_4$. The plot shows a shaded region for the MicroBooNE excluded region. A legend indicates: ν_4 excluded at 95% confidence level, MicroBooNE excluded at 95% confidence level, MicroBooNE excluded at 95% confidence level, ν_4 excluded at 95% confidence level, ν_4 excluded at 95% confidence level.


Impressions: 917
Clicks: 22
Reactions: 14

Successful content



November 2025

Research Projects



field theory.
Specifically,

physicastronomyedinburgh Our MSc graduates completed an inspiring range of projects as part of their degree.

From Lattice Field Theory to the geometry of the distribution of Dark Matter, they've shared what their work involved and what they discovered along the way. 📚

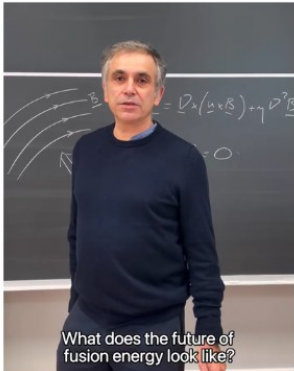
Thank you all for being part of our community! 🙌

#EdinburghGrad

#Physics

Reach:	2,147
Engagement:	121
Video views:	3,182

December 2025



What does the future of fusion energy look like?

physicastronomyedinburgh Join us for a major public lecture on the future of fusion energy!

We're excited to welcome Sir Steven Cowley to Edinburgh for "Fusion Energy: When?" — an evening exploring how close we truly are to achieving practical fusion power.


Tuesday 6 January 2026
🕒 Doors open 5:45pm (Lecture starts 6:30pm)
📍 Room G.23, 50 George Square
🍷 Free lecture + drinks reception

Don't miss this chance to hear from one of the world's leading voices in fusion energy research.
👉 Tap the link in our bio for full details & tickets!

#UoEPhysics #FusionEnergy #PublicLecture
#UniversityOfEdinburgh #FutureOfEnergy

Reach:	1,497
Engagement:	139
Video views:	2,704

January 2026



physicastronomyedinburgh Congratulations to Dr Sally Shaw who has been awarded the 2025 Chancellor's Award: Rising Star. 🌟

The Rising Star Award honours an early career colleague who has made a significant contribution in their role. Sally, a lecturer in Experimental Particle Physics, received the Rising Star Chancellor's Award in recognition of her outstanding reputation in the field of dark matter detection, and her outstanding leadership in both research and in public outreach programmes.

Dark Matter 🌌

Sally has delivered world-leading results as the LZ dark matter experiment's Physics Coordinator. She is leading delivery of the largest component of LZ's scaled-up successor, XLZD, and is one of the UK academics driving the effort to host XLZD in the UK at the Boulby Underground Laboratory.

Championing inclusion and opportunities in physics 🌟

As one of a small number of female academics in her discipline and a first-generation university graduate, Sally has been a driving force in public engagement and equity, diversity and inclusion within the particle physics community and at Edinburgh, with a particular focus on encouraging under-represented groups into physics and engaging schools in remote and deprived areas.

The awards were presented by the Chancellor, Her Royal Highness The Princess Royal, during a gala dinner held this week at the Palace of Holyroodhouse. The Lord Provost, Councillor Robert Aldridge, joined in congratulating the winners.

Reach:	2,101
Engagement:	99

Successful content

Audience

- staff
- science community
- current students
- prospective students
- prospective staff
- alumni
- general public
- industry

Storytelling

- narrative structure
- give information a personal touch
- real-life scenario
- linked to a current problem

Language

- avoid using tricky terminologies
- explain things in everyday accessible language



Questions

Caroline Keir: caroline.keir@ed.ac.uk



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