



Science & Technology
Facilities Council

UK Research
and Innovation

Welcome to Fascination, a fortnightly behind the scenes look at our labs, facilities and funded research and the breakthroughs they bring.

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Radiotherapy access for developing countries

STFC is working with accelerator experts at CERN and the International Cancer Expert Corps (ICEC) to create medical linear accelerators for the developing world.

70% of patients there currently don't have access to radiotherapy treatment, and experts met to discuss the design of affordable and robust systems.

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Accelerating A-levels for science students

ISIS Neutron and Muon Source hosted an Accelerator Day for 60 A-level students. Pupils were given an insight into how accelerators impact our everyday lives and got to hear about the incredible science and engineering taking place at Rutherford Appleton Laboratory.

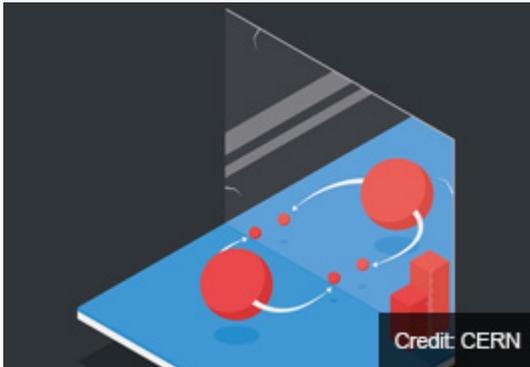
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I'm a scientist - you can be too

Tori Blakeman, Impact and Engagement Officer at Daresbury Laboratory, recently took part in the I'm a Scientist online competition, sponsored by STFC, which helps school children identify with people who work in science through online chats.



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CERN research is particle physics milestone

LHCb, one of the four main experiments at the Large Hadron Collider, has announced the first ever observation of CP violation, differences in anti-matter behaviours, in the decays of charm mesons. UK physicists have been at the heart of this research.

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What are T-rays used for?

Having broken a world record for the highest energy in a single pulse of terahertz radiation (T-rays), Professor David Neely tells us how these T-rays could impact everything from medical treatment to travel.



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Collaboration wins Mersey Basin support

Science, industry and local government are joining forces to improve productivity and jobs growth in the North West. The "Mersey Basin" collaboration, including the Hartree Centre, has won £50,000 seed funding from the Government's Industrial Strategy to help develop a full bid for up to £50 million.

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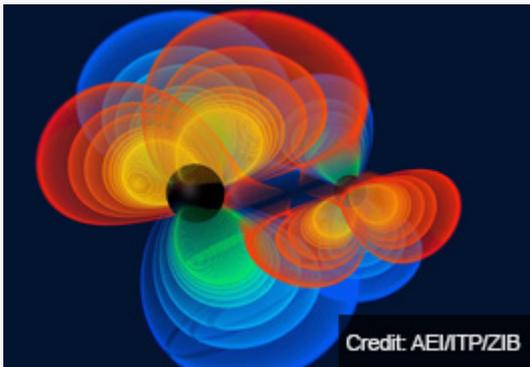
Key role for UK industry in powerful new accelerator

A major new physics facility near Chicago is expected to have UK technology at its heart, and lead to significant spin-off opportunities for UK companies. The UK has committed £65 million investment to help build and operate DUNE, PIP-II and neutrino beam technology.



Credit: Fermilab

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Credit: AEI/ITP/ZIB

Hunt for gravitational waves to resume

UK astrophysicists are gearing up to resume the search for gravitational waves this week. Substantial upgrades to the three global detectors means that they can survey a larger volume of space than ever before for powerful events, such as the collisions of black holes.

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At the cutting edge... literally

Meet Viv, our resident high-tech tailor at STFC's UK Astronomy Technology Centre in Edinburgh. She has been a member of the team for nearly 30 years. Her hobby

is quilting, which led to her stitching a bespoke insulation jacket for the MOONS cryostat, for the Very Large Telescope, in Chile. STEM is for everyone!

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STFC Social Media



Meet Lena! She is an explosive detective dog undergoing her training here at [#DaresburyLaboratory](#). [@cheshirepolice](#) [@NWPolice](#). [Read more here](#).



Welcome to the 3rd year apprentices visiting from [@DaresburyLab](#)! This is the second part of the apprentice skills sharing and knowledge exchange. [Read more here](#).



Great news for [@SciTecDaresbury](#) as Japanese technology company [@HosokawaMicron](#) launches its start-of-the-art lab facility. [Read more here](#).



It's [#WorldPoetryDay](#)! Meet [@JustinTabbPW](#), our physics placement student, who enjoys writing poetry in his spare time. [Read more here](#).

