



Welcome!

Prof Dr Carsten P Welsch
Head of Physics Department

Liverpool physics today

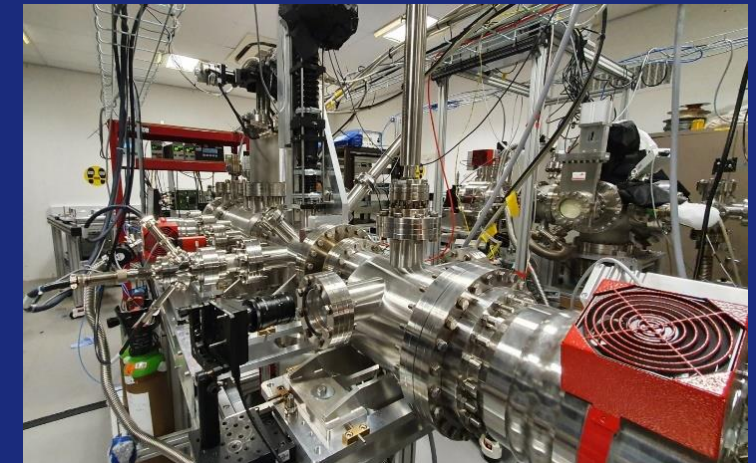
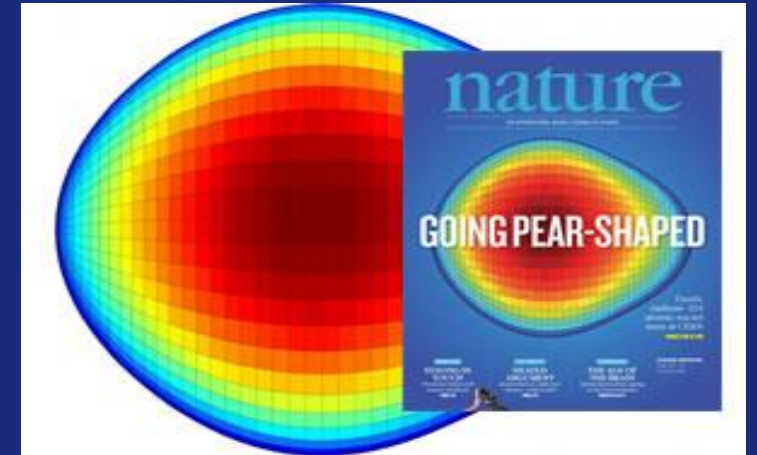


- A UK Top10 physics departments for research quality and environment (REF2021)
- Has a proud history of more than 140 years;
- 45 academics, +400 undergraduate, +150 PhD and +150 PGT students.

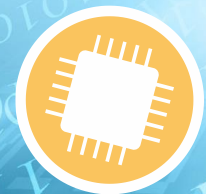
THIS BUILDING WAS OPENED BY
HER ROYAL HIGHNESS
PRINCESS ALEXANDRA
THE HON. MRS. ANGUS OGILVY
G. C. V. O.
ON THE 15TH DAY OF MAY 1969

Cutting edge research

- Our research spans across **five clusters**: accelerator science, nuclear and particle physics, condensed matter physics and (new!) physics education.
- **Fundamental Science** (ATLAS, LHCb, ALICE, etc), neutrinos, quantum, radioactive ions, next-gen light sources, antimatter, HLLHC, AWAKE, EuPRAXIA, etc.
- **Applied research** with focus on healthcare instrumentation, imaging & diagnostics, nuclear industry, and data intensive science.



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Strategic partnership

Liverpool physics signed strategic partnership agreements with key institutions, including:

- Daresbury
- CERN
- GSI/FAIR
- TRIUMF
- Fermilab/URA

We are ranked among the top 25 institutions globally who collaborate with CERN.



Science and
Technology
Facilities Council



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From Knowledge to Impact: STFC Impact Acceleration Account

Success stories:
*Commercialization of beam
diagnostics solutions*

Medical instrumentation

Impact



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Accelerating Innovation

Collaboration is key

Teaching + industry hack space



- Collaborative space for industry-academia projects.
- Facilitating workshops, seminars and other small group training events.
- Joint technology development, de-risking investment into new product solutions.



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Summary & outlook

- World-class science;
- Focus on interdisciplinary research, in particular medical R&D;
- LhARA builds ideally on our ongoing research activities, in particular OMA and EuPRAXIA;
- Lead role in improving training and education – important aspect for LhARA's future.



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