



PABG Annual Conference

Welcome!



Prof Dr Carsten P Welsch
Head of Department

IOP | Institute of Physics
Particle Accelerators
and Beams Group



Liverpool physics today

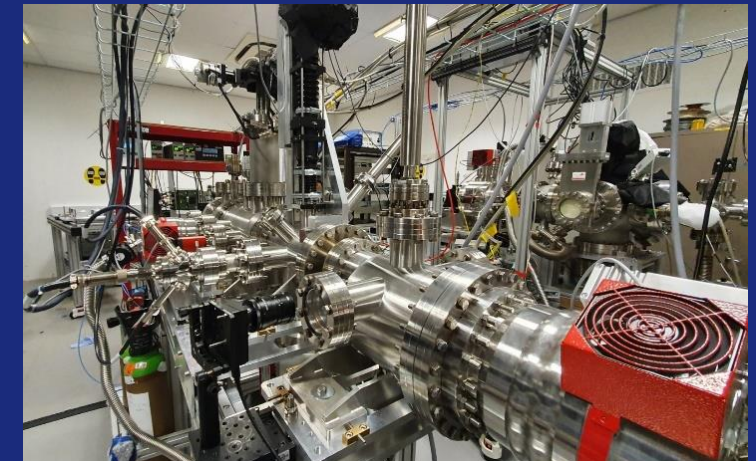
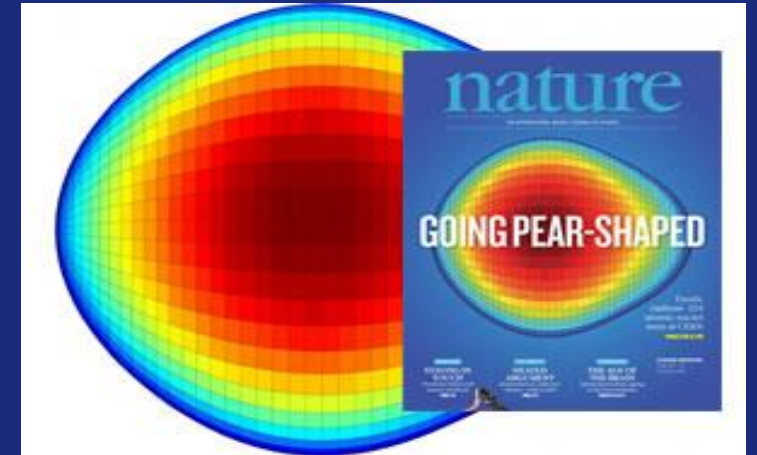


- A UK Top10 physics departments for research quality and environment (REF2021)
- Has a proud history of more than 140 years;
- 43 academics, 400 undergraduate and 150 PhD students.

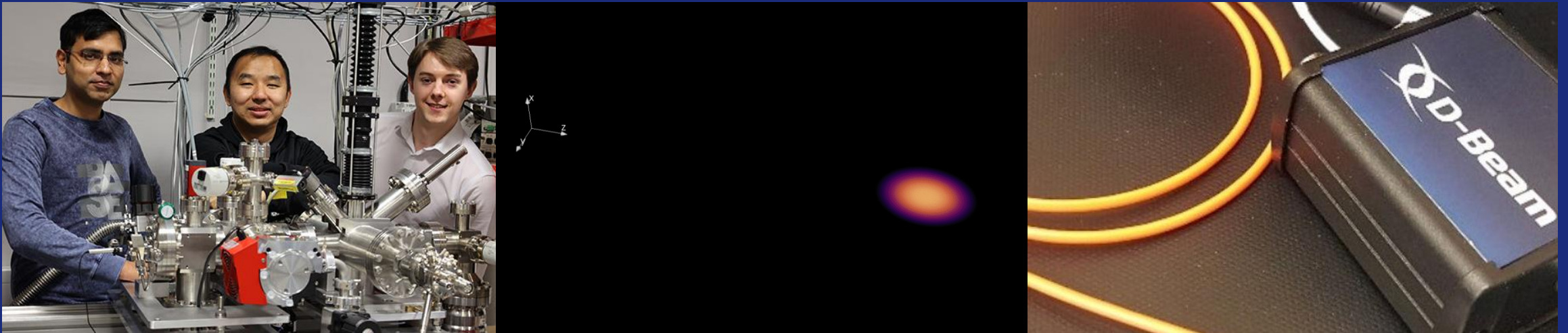
THIS BUILDING WAS OPENED BY
HER ROYAL HIGHNESS
PRINCESS ALEXANDRA
THE HON. MRS. ANGUS OGILVY
G. C. V. O.
ON THE 15TH DAY OF MAY 1969

Cutting edge research

- Our research spans across **four clusters**: nuclear and particle physics, condensed matter physics, and accelerator science.
- **Fundamental Science** (ATLAS, LHCb, ALICE, etc), neutrinos, quantum, radioactive ions, next generation light sources, particle colliders
- **Applied research** with focus on healthcare instrumentation, imaging & diagnostics, nuclear industry, and data intensive science.

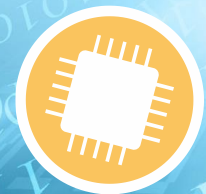


Accelerator Science



- R&D across departments of physics, engineering and EEE;
- Active across entire spectrum of CI research;
- Academic staff: J Bradley, T Charles, L Corner, J Dearden, A Wolski and C P Welsch.

LIV.INNO





UNIVERSITY OF
LIVERPOOL

Collaboration is key

Fermilab 6,315 km

Liverpool physics has 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.

g-2 experiment

Groundbreaking research with international partners.

Liverpool heavily involved through particle physics, theoretical physics and accelerator science.



The Cockcroft
Institute 

Accelerating R&D

for sCIence and soCIety



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