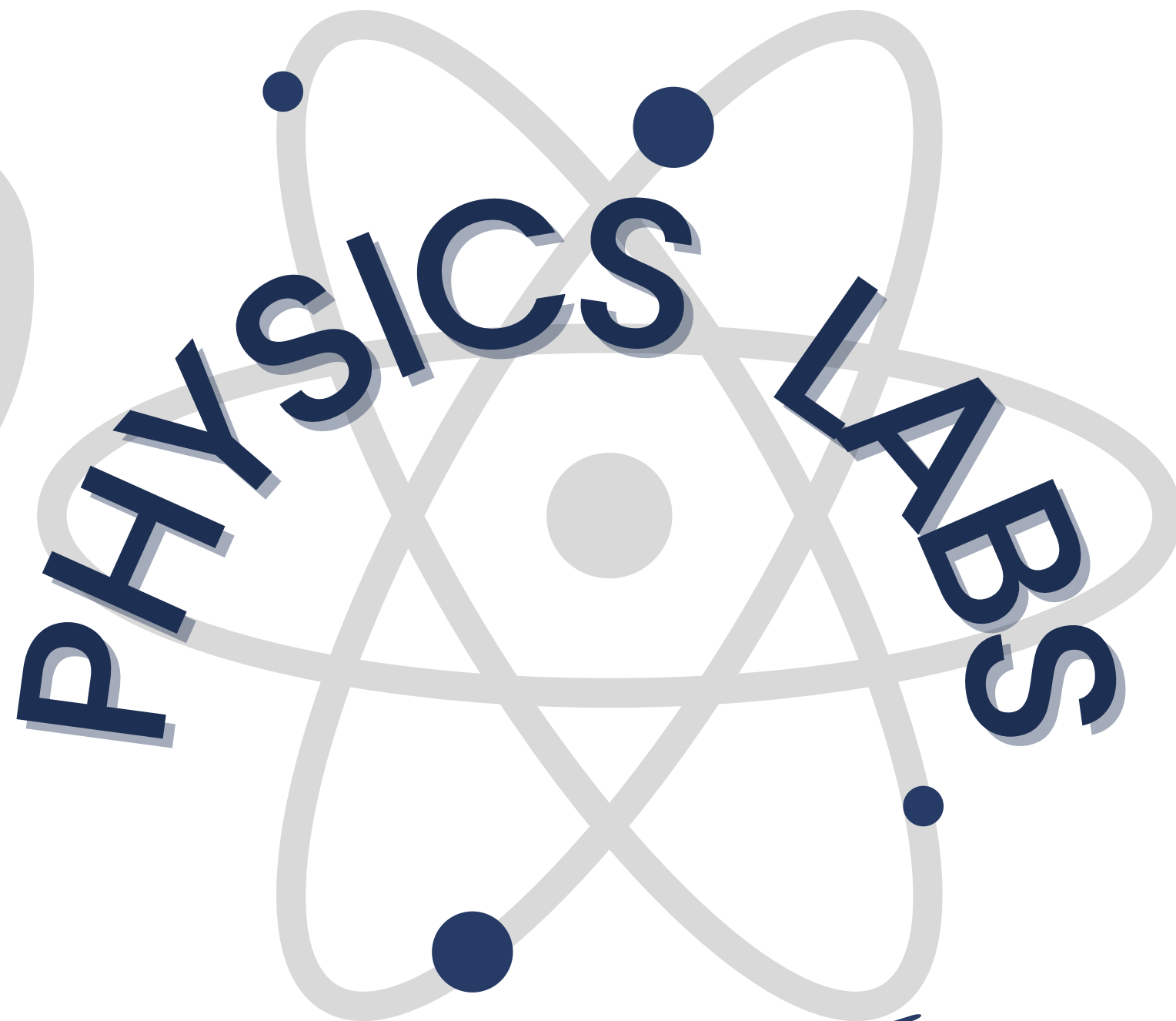
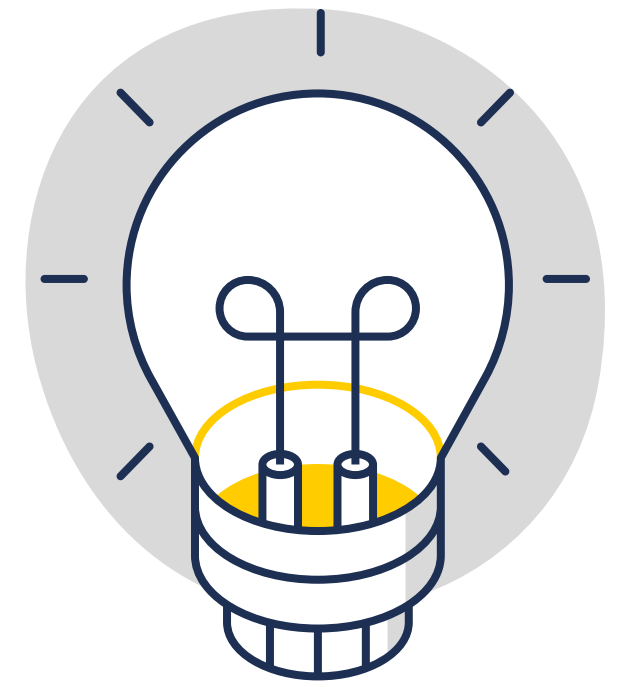
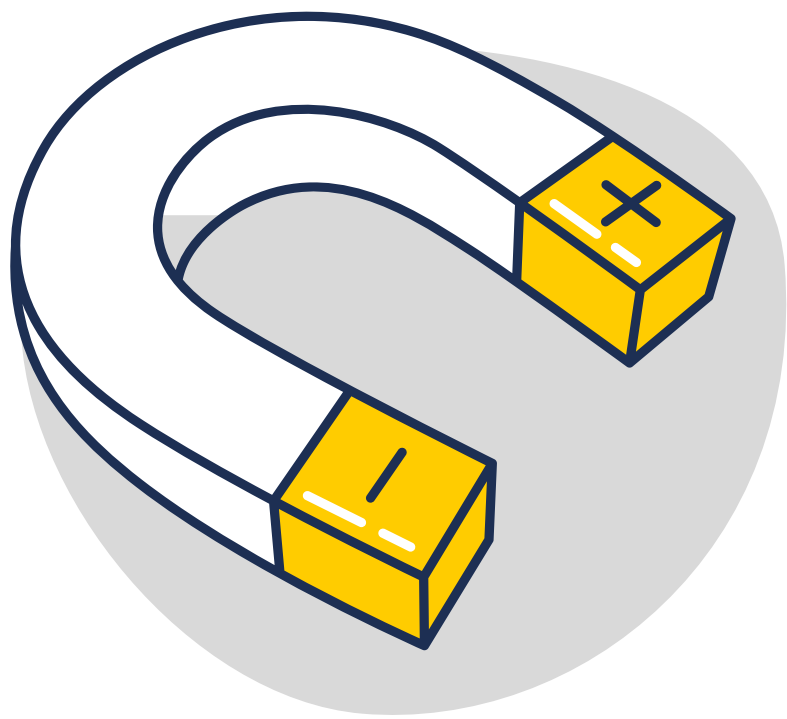


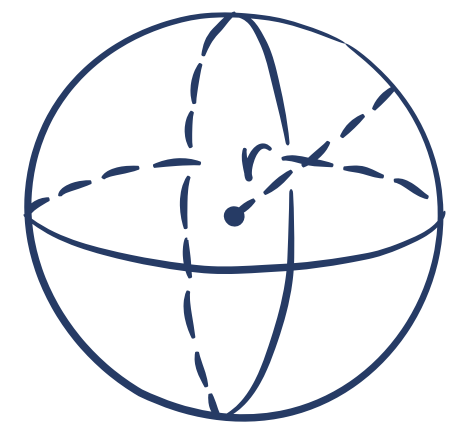
OFFICIAL OPENING OF REFURBISHED



$$a = \frac{v_f - v_i}{t}$$



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



$$V = \frac{4}{3} \pi r^3$$



$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

**From 15.45 official Physics opening
in P1 to P3 and from 16.30 Inspire Lecture**

Wednesday 25th January 2023 | 15:30 to 17.30

READING SCHOOL

To confirm attendance [CLICK HERE](#)



PHYSICS INSPIRE LECTURE



**From the James Webb
Space Telescope to the
SPEQTRE CubeSat:
the many, many
applications of space**

**Presented by
Dr Rebecca Harwin
(Instrument Development
Scientist at RAL Space)**

Rebecca received a First Class degree in Natural Sciences from the University of Cambridge, specialising in Physics for the final two years of her degree. Her PhD research looked at optimising superconducting detectors and investigating their potential use in space. As part of this work, she collaborated with the Netherlands Space Research Institute, modelling detectors for ESA's proposed ATHENA x-ray telescope. During her PhD, Rebecca was a supervisor for small groups of first year Natural Sciences students, covering problems from the first year Mathematics for Natural Scientists course. She also participated in the Concurrent Engineering Challenge at ESA Redu and the online International Space University Interactive Space Programme, investigating the ways in which the space sector could help to mitigate future pandemics.

She now works as an Instrument Development Scientist at RAL Space, identifying and testing promising new technologies for satellites. Rebecca is currently involved with the SPEQTRE mission, a CubeSat developed with SpeQtral in Singapore to demonstrate Quantum Key Distribution. In particular, she has developed system-level tests for the scientific payload and is working on the design for the optical ground station. She has previously been part of a project to measure background light pollution and atmospheric turbulence.

In her spare time, Rebecca is part of a Women in Aerospace: Europe working group, looking into understanding and improving the factors that impact the visibility of female experts in the aerospace sector. She is also a member of the Space Generation Advisory Council, a member of the communications team for the European Space Generation Workshop and recently attended the Space Generation Congress in Paris.

Wednesday 25th January 2023 | 15:30 to 17.30
READING SCHOOL

Join us for the opening of refurbished Physics Labs with keynote Inspire Lecture. Pupils, staff, parents and alumni are welcome (please note there is limited capacity). Arranged by Dr C Lewis-Brown (Teacher of Physics) and Mrs J Chhokar (Society Manager). To confirm attendance [CLICK HERE](#).