

# QUANTUM TECHNOLOGY SCHOOL | 20 21

The Quantum Technology School is a joint venture led by the School of Physics & Astronomy at the University of Glasgow, with invaluable support from the Schools of Computing Science and Engineering. In previous years, participants have joined us at the University campus to hear from leading researchers in the field of Quantum Technology, carry out hands-on workshops, get a chance to speak to current and former students about life at University, and learn something about how Physicists think.

We can't bring you and your pupils to the campus this year, but we hope to replicate as much of the normal experience as we can, remotely.

From 1900-2030 on 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> of December we will be hosting Zoom-based presentations and panels where you and your pupils can hear about the latest developments in the field and ask questions of students both past and present. Full details of the timetable are available on the QTS website:

<https://www.gla.ac.uk/schools/physics/research/groups/qtg/schoolsandoutreach/quantumtechnologyschool/qts2021/>

The Zoom links will be sent to the registered email addresses by the 3<sup>rd</sup> of December so they can be distributed to the pupils you think will be involved.



Figure 1 The QTS Website

# ACADEMIC PACK

In the meantime, this Academic Pack is designed to let you and your pupils dip your toes in the subjects in your own time before those live sessions. The Pack is split into four sections:

PART 1: CIPHERS

PART 2: POLARIZATION

PART 3: THINKING LIKE A PHYSICIST

PART 4: CRYPTOGRAPHY

Each can be tackled independently, and in any order. Your pupils don't need to complete them to be able to take part at the Zoom sessions – we just think these might help them, and you, get a better idea of the field, in the same way the face to face workshops would have done if this had been a normal year.



Figure 2: Activity Pack

The Pack can be accessed via

<https://www.gla.ac.uk/schools/physics/research/groups/qtg/schoolsandoutreach/quantumtechnologyschool/qts2021/qts2021academicpack/>

The polarizers in this pack relate to Part 2; the jar of beads to Part 3.

In writing the instructions, we have tried to allow for the material to be tackled in class, or at home. We think in class is best, but we recognise that (even more so than usual) the time pressures you are already under may make this impossible

We look forward to “seeing” you all on the 6<sup>th</sup> ...

Best wishes,

The QTS Team