

SUMMER STUDENT LECTURE PROGRAMME 2022

Lecture Title **Antimatter in the Lab**

Lecturer's name **Dr. Jack Devlin**

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Short CV

I'm interested in searching for new fundamental physics using small-scale experiments. My career so far has been:
2007-11 MPhysPhil, University of Oxford
2011-15 PhD (Measuring the electron electric dipole moment with YbF), Imperial College London
2015-18 Post-Doc., Imperial College London
2018-19 Post-Doc., RIKEN, conducted at the BASE experiment, Antimatter Factory, CERN
2019-21 CERN Senior Research Fellow, BASE experiment, Antimatter Factory
2021 CERN Staff, BASE experiment, CERN

Lecture Content

The lectures will explain why we're interested in studying antimatter. They will also cover experimental efforts in CERN's Antimatter Factory to answer questions like: "Does antimatter fall up or down?", "Do all the intrinsic properties of antimatter mirror those of matter?" and "Can we transport antimatter?"

Pre-requisites:
earlier series of lectures
that the students
should follow

None

Other pre-requisites:

None