

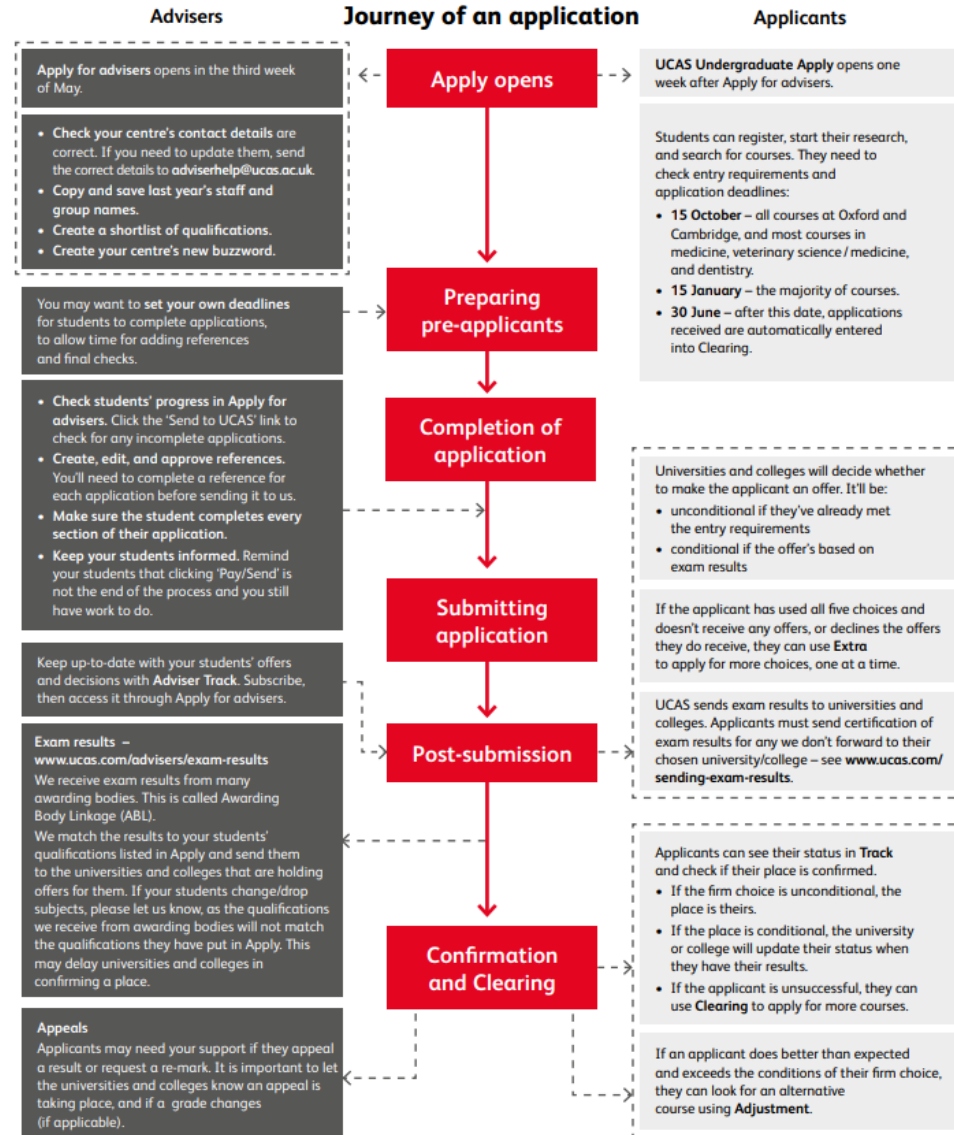
Physics

Applicant Day



Professor Justin Read, Head of Department
Dr Caroline Shenton-Taylor, Admissions Tutor

Section 2: Completion of application



Congratulations!

Universities and colleges will decide whether to make the applicant an offer. It'll be:

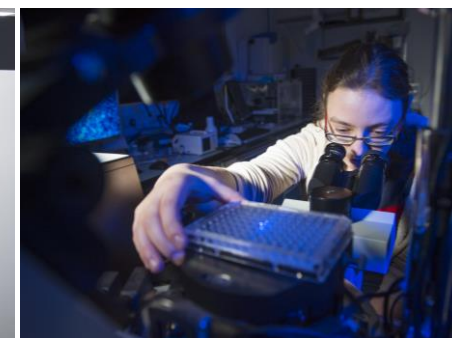
- unconditional if they've already met the entry requirements
- conditional if the offer's based on exam results

The Physics Department

Founded in **1906** when the University was still based in Battersea

36 Academic staff

350-400 Undergraduates



Member of



South East Physics Network



National Physical Laboratory



Teaching
Excellence
Framework

Academic Staff

Academic Staff



Dr. Anwar Adnan
Lecturer in Soft Matter Physics



Professor Ben Al-Jalil PhD FRS
Professor of Physics
Director of Public Engagement in Science



Professor Jeremy Allen
Professor of Quantum Communications



Dr Carlo Badierci
Reader in Theoretical Nuclear Physics



Professor Wilton Cardrod
Professor, Research Group Leader in
Experimental Nuclear Physics



Dr Steven Clowes
Senior Lecturer in Condensed
Matter Physics,
Director of Learning and Teaching



Dr Michelle Collins
Lecturer in Astrophysics



Dr Matthew Delcorne
Senior Research Fellow



Dr Alessio Diaz-Torres
Senior Lecturer in
Theoretical Nuclear Physics



Dr David Doherty
Senior Lecturer in
Experimental Nuclear Physics



Dr David Erskel
Lecturer in Astrophysics



Dr David Faux
Reader in Soft Matter Physics



Dr Maria Florouca
Reader of Physics



Professor Mark Galea
Professor of Astrophysics



Dr Eric Glimmer
Senior Lecturer in
Condensed Matter Physics



Dr Ahmed Ghanem
Senior Lecturer in Astrophysics,
Research Group Leader



Dr Konstantin Hill
Teaching Fellow



Dr Robert Izzard
Lecturer in Astrophysics



Dr Izabela Janewska
Lecturer in Soft Matter Physics



Professor Joseph Keeble
Professor of Soft Matter Physics



Dr Konstantin Litvinenko
Research Fellow in Biological Science



Dr Anzika Lubrich
Senior Lecturer in
Applied Acoustics Physics,
Research Group Leader



Dr Gerd Lotay
Senior Lecturer of
Dimensional Analysis, Fluids and
Nucleic Acids



Professor Peter McDonald
Professor of Soft Matter Physics



Professor Ben Martin
Professor of Physics
UKRI Centre for Quantum Computing
and Quantum Science Group Leader



Professor Andy Habet
Professor of Medical Physics



Dr Nicola C. O. Noel
Lecturer in Astrophysics



Dr Shiva Patel
Senior Lecturer in
Applied Radiation Physics



Professor Zack Podolyak
Professor of Experimental
Nuclear Physics



Professor Justin Reed
Head of Department,
Associate Chair



Professor Patrick Regan
NIH Professor of
Radiation-Mediated
Biology



Dr Armin Rieck
Senior Lecturer of
Theoretical Nuclear Physics



Dr Giuseppe Svelto
Reader in Medical Physics



Dr Richard Saw
Reader in Soft Matter,
Research Group Leader



Professor Paul Selby
Professor of
Radiation and Medical Physics,
Research Fellow Director



Dr Caroline Sheehan-Taylor
Lecturer in Applied Nuclear Physics



Dr Paul Stevenson
Reader in Theoretical Nuclear Physics,
Research Group Leader



Professor Stephen Sweeney
Professor of Physics



Dr Francesco Vignoli
Teaching Fellow

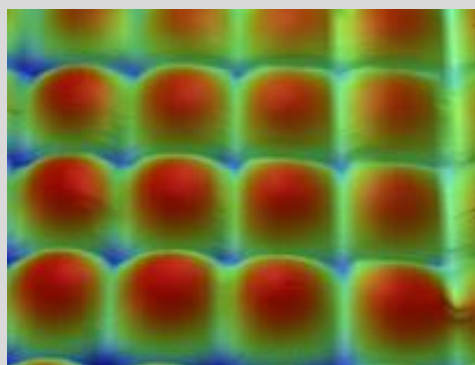
Physics Research Areas

Photonics and Quantum Science



*Laser beaming
solar energy to
earth*

Soft Matter and Polymers



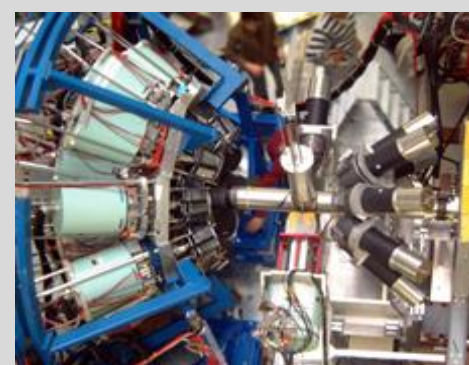
*Advanced
polymer
systems*

Astrophysics



*Modelling
galaxy
formation*

Nuclear Physics



*Germanium
detector array
at GSI
laboratory*

Medical Physics



*Multi-
functional
imaging*

Our Placement Programmes

Ranked

1st in the UK and 7th in the World

in the

2019 QS Employability Rankings

for

work placements and research

partnerships with employers



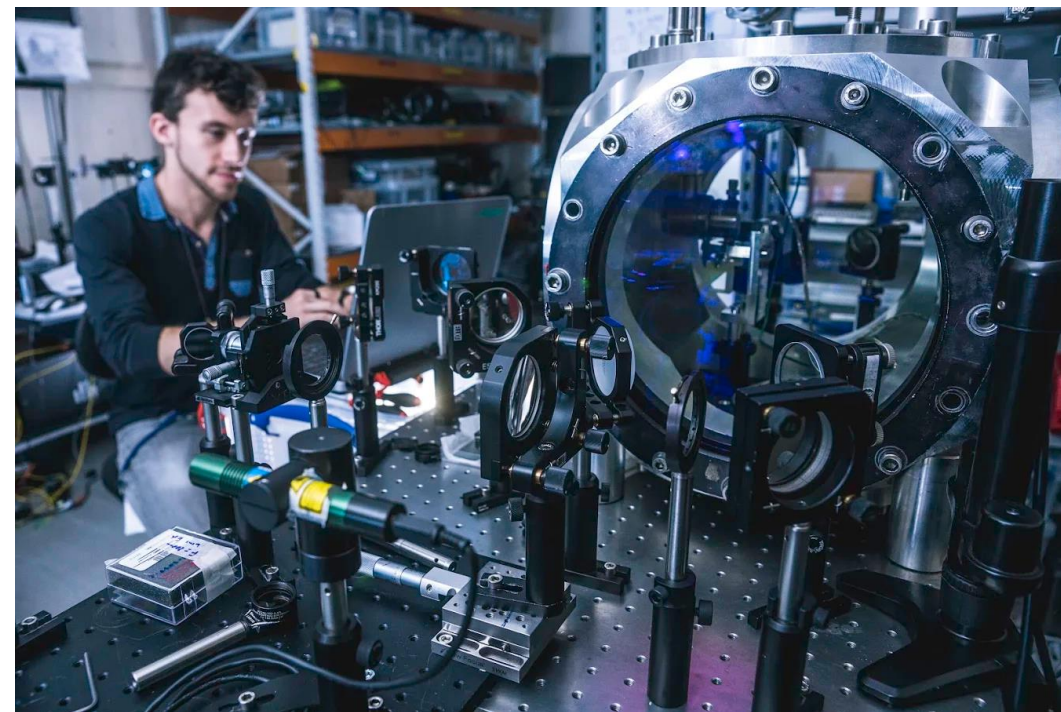
Our Placement Programmes

Leading in Graduate Employment

- BSc optional paid 1 year placements
- Unique MPhys Research Year
- Shorter summer placements
- Excellent graduate employment outcomes



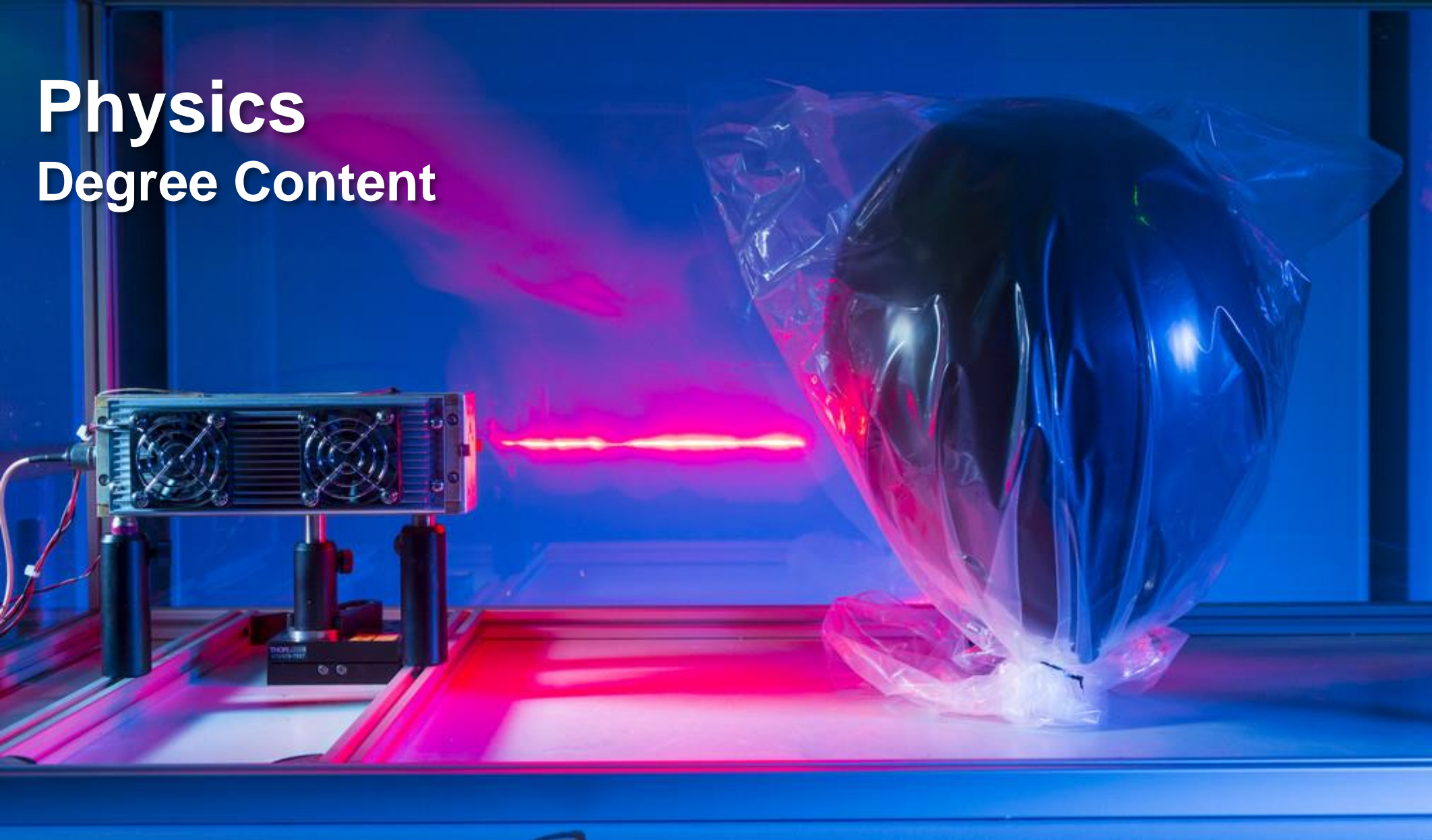
Phillips Respirationics



Rutherford Appleton Laboratory

Physics

Degree Content



The courses we offer

Physics

Physics with Astronomy

BSc

MPhys

Physics with Nuclear Astrophysics

Physics with Quantum Technology

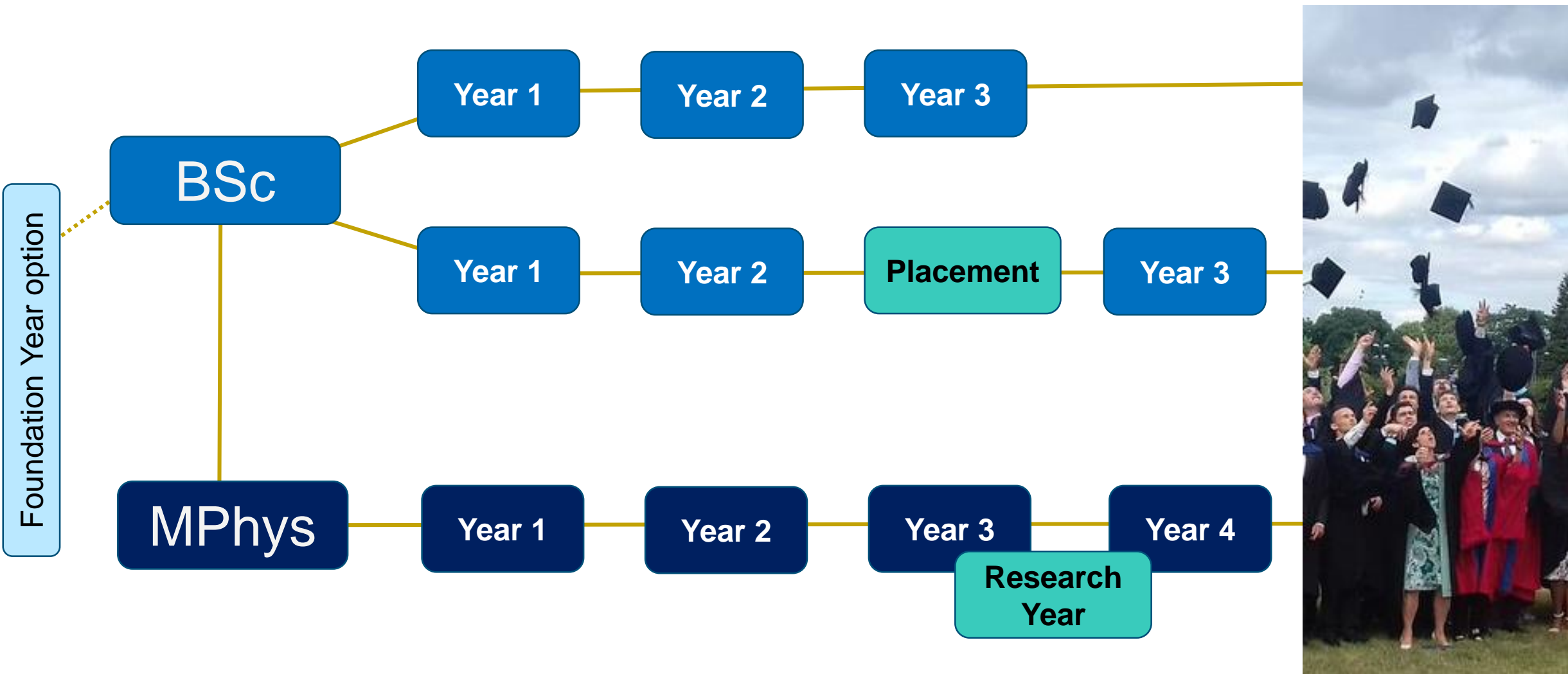
Mathematics and Physics

BSc

MPhys

MMath

Your Placement Choice



How is it taught?



	PHYSICS	PHYSICS & MATHS
PHY1033 Fundamentals of Physics	✓	✓
PHY1034 Essential Mathematics	✓	
PHY1035 Scientific Investigation Skills	✓	
PHY1036 Oscillations and Waves	✓	✓
PHY1037 The Universe	✓	
PHY1038 Mathematical & Computational	✓	
PHY1039 Properties of Matter	✓	✓
PHY1040 Atoms and Quanta		✓
PHY1034 Linear Algebra		✓
MAT 1041 Professional Skills		✓

Parallax Angles

Fine Structure

Focal Points

Impulse

Molecular Orbitals

Special Relativity

Crystal Lattices

Interstellar Clouds

Harmonic Motion

Kepler's Laws

RC Circuits

Ideal Gas

Bohr model

Vector Manipulation

Equations of Motion

Carnot Engine

Surface Tension

Stern-Gerlach Expt.

Surface Tension

Rocket Equation

Planetary Motion

Beta Decay

Kinetic Energy

Bonding

Electrostatics

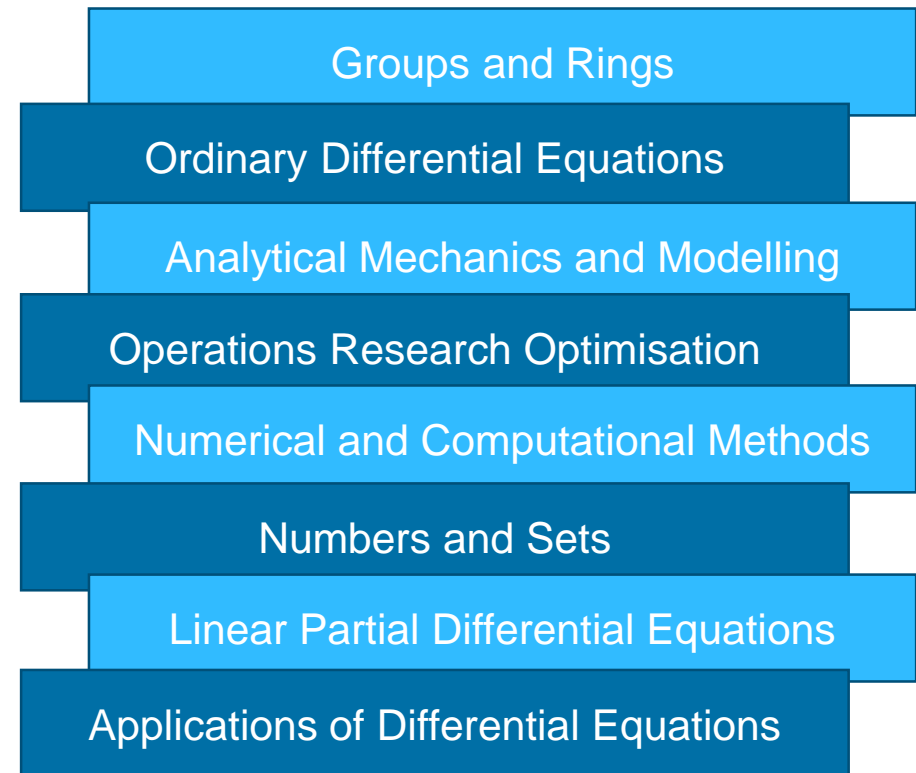
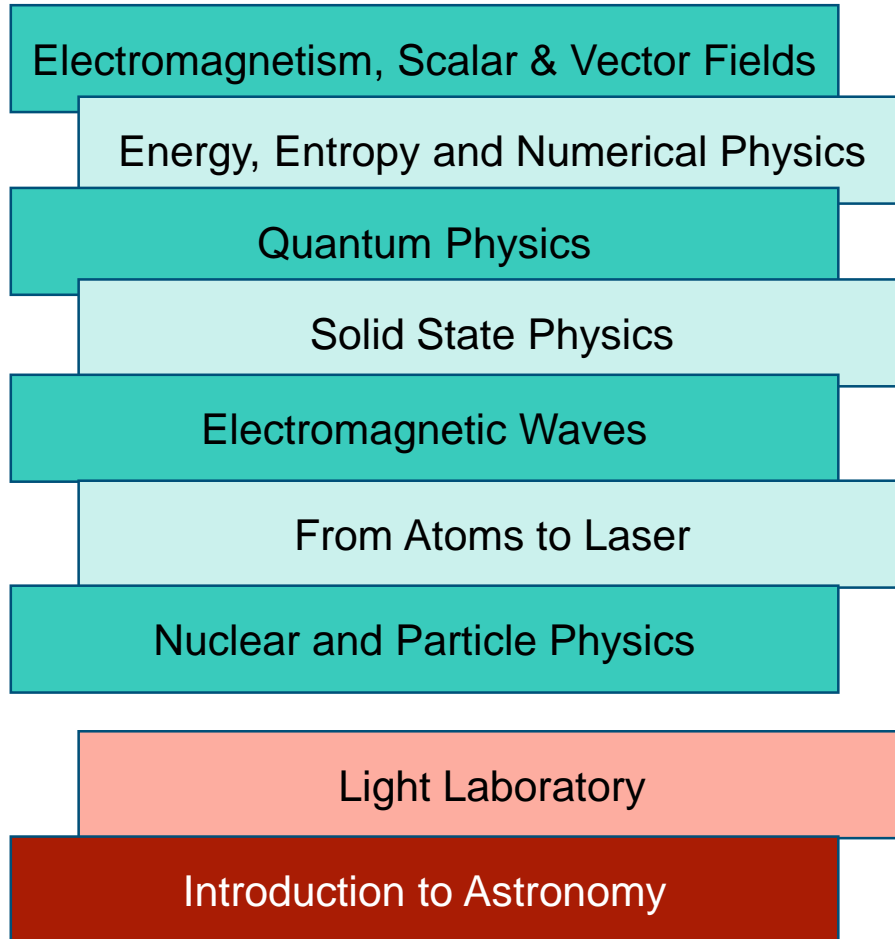
Colliding Bodies

General Relativity

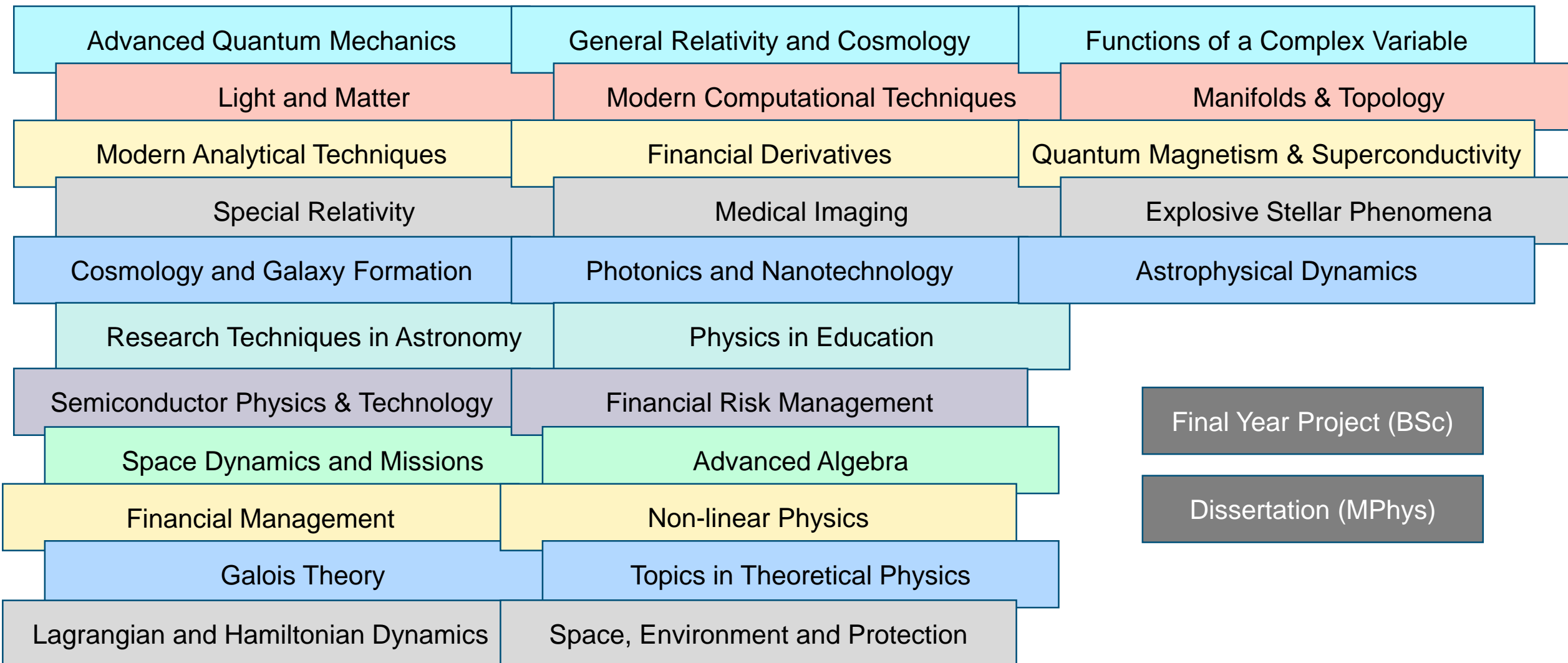
Debye Temperature

Maxwell Relations

+ more!



Years 3 & 4



A typical 1st year timetable

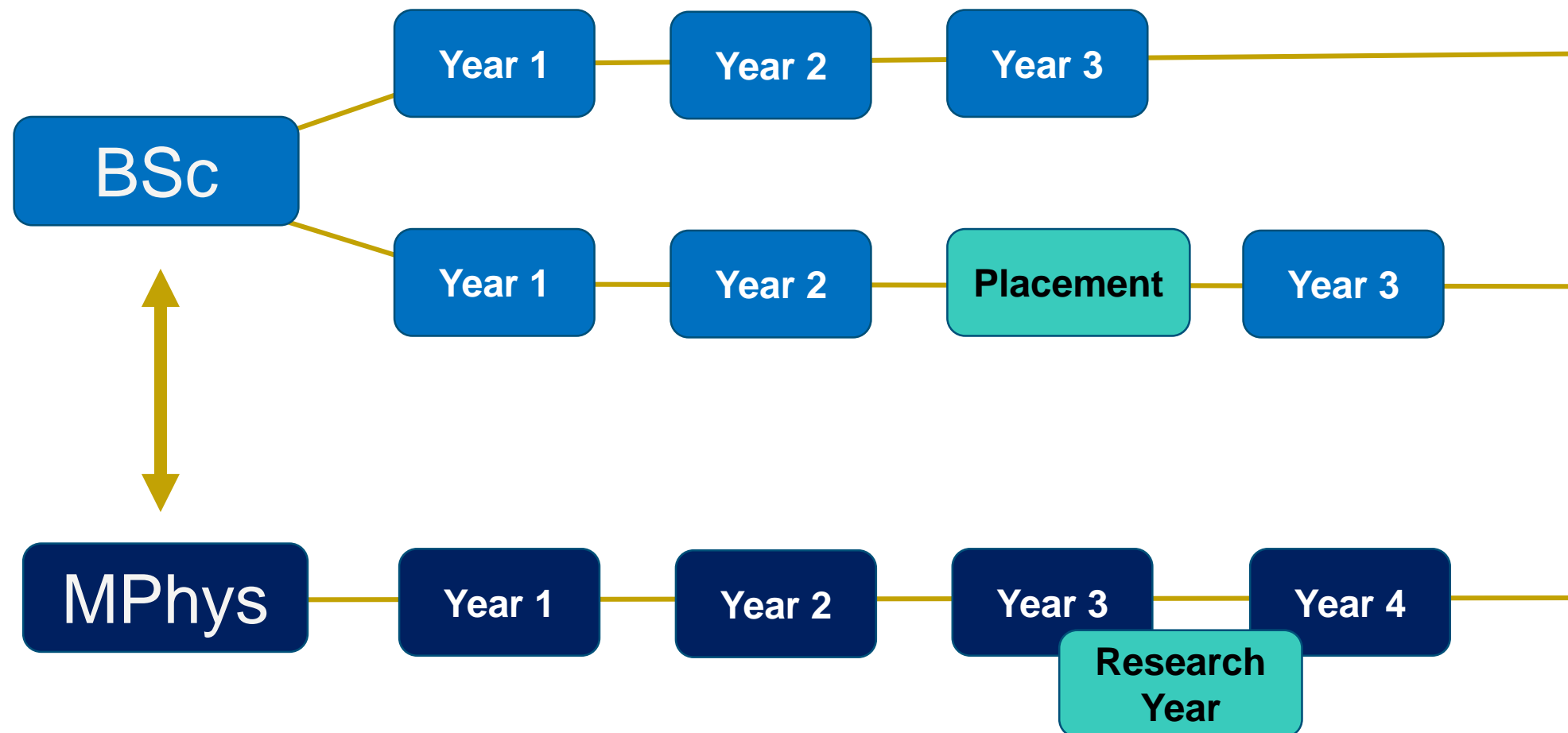
Day	Monday	Tuesday	Wednesday	Thursday	Friday
9 am		Lecture	Lecture	Lecture	Labs
10 am		Tutorial	Lecture	Tutorial	Labs
11 am	Lecture	Lecture			Labs
12 pm	Lecture				Labs
1 pm			<i>Private</i>		
2 pm		Skills	<i>Study</i>	Lecture	Computing
3 pm	Lecture		<i>or</i>	Tutorial	Computing
4 pm	Tutorial	Lecture	<i>Sports</i>		

Typically ~20 contact hours per week

Physics Placement Opportunities



How do the BSc and MPhys programmes work?



BSc | Optional Summer Placements



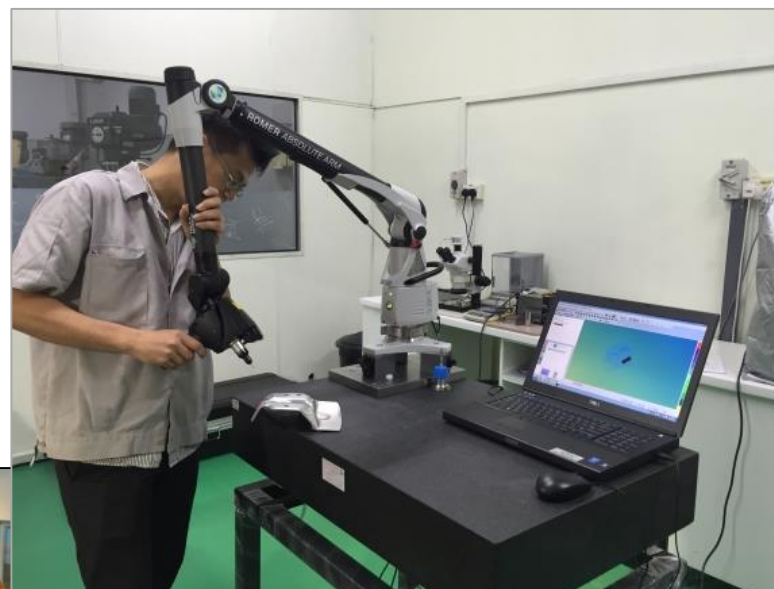
SEPnet
South East Physics Network



BSc | Optional Professional Training Year



Networking



2300
placement
providers

Paid

Reduced
fees

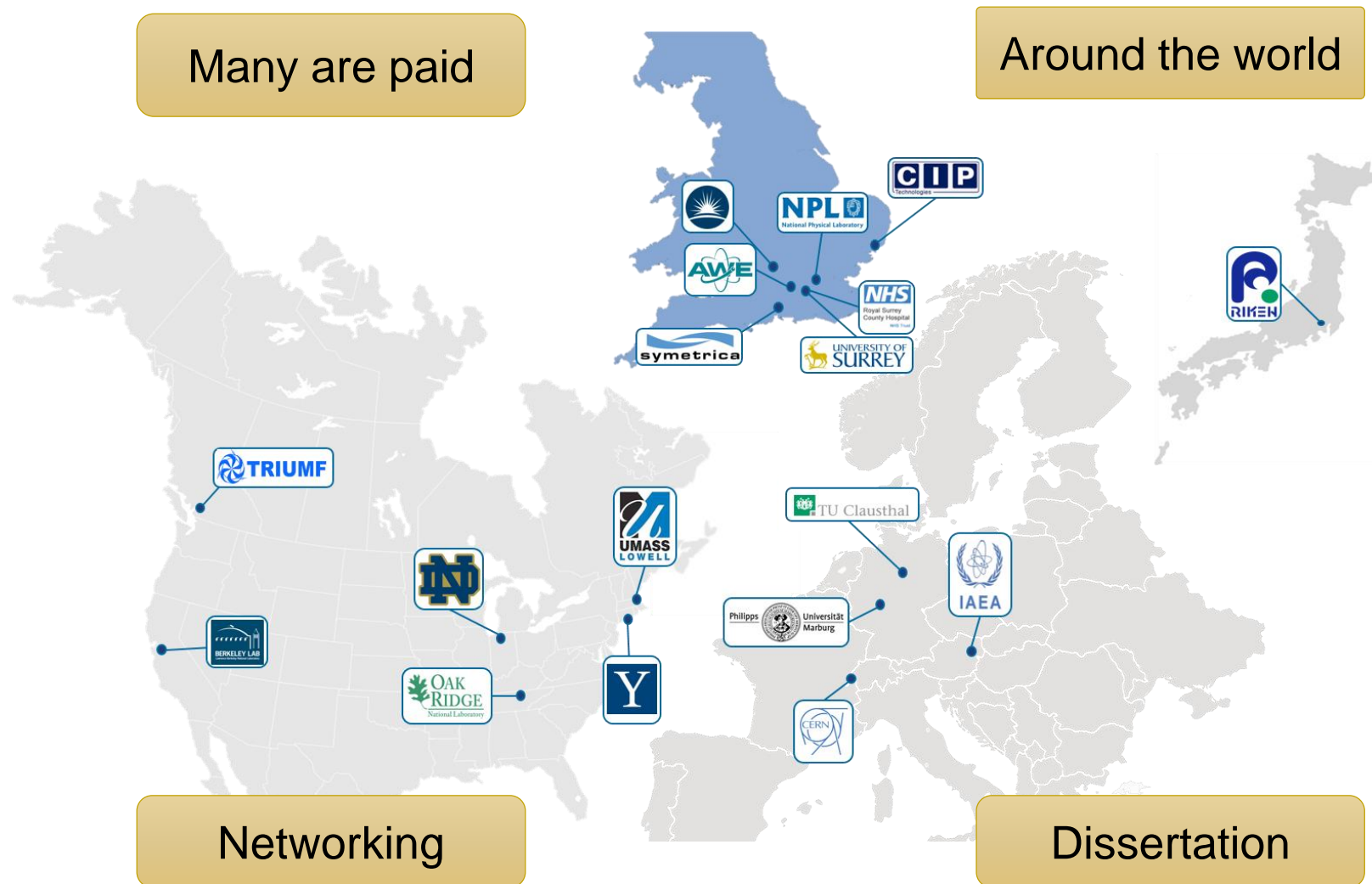


MPhys | Research Year



Many are paid

Around the world





Physics Community

physicsadmissions@surrey.ac.uk

Friendly and Inclusive Community

Welfare Centre

Wardens

Secure Campus

The Hive for Students

Physoc Society

Department Talks

Physics Student Reps.

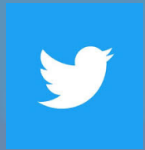
Physics Ambassadors

Personal Tutors

Peer Teaching



www.surrey.ac.uk/departments-physics



@PhysicsatSurrey

@surreyastro



UNIVERSITY OF
SURREY



University of Surrey

Surrey Offer Holders
(Physics Q&A)

Admissions Tutor:
physicsadmissions@surrey.ac.uk

Head of Department:
physicshod@surrey.ac.uk