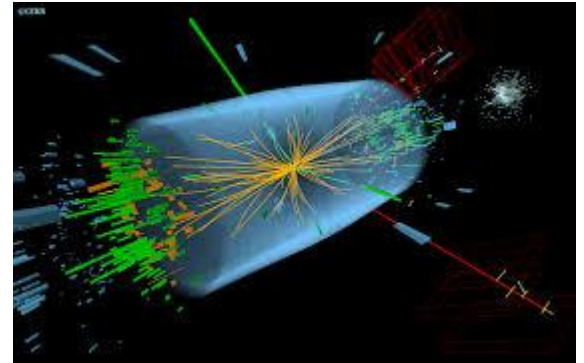
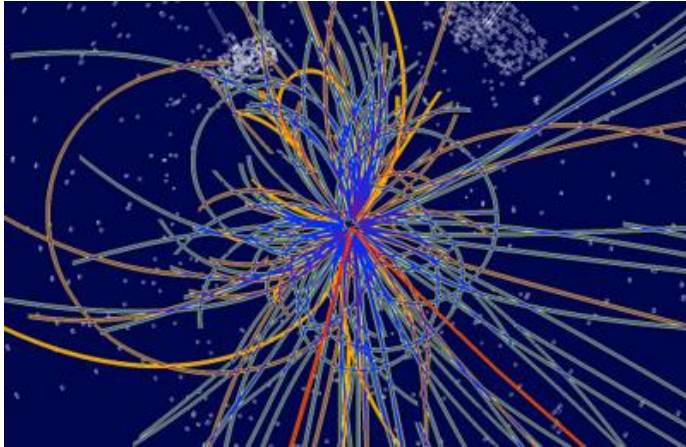


A-Level Physics



Why choose physics?

1. The challenge
2. The passion
3. The opportunities

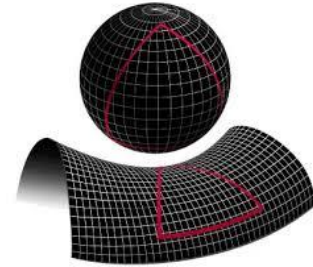
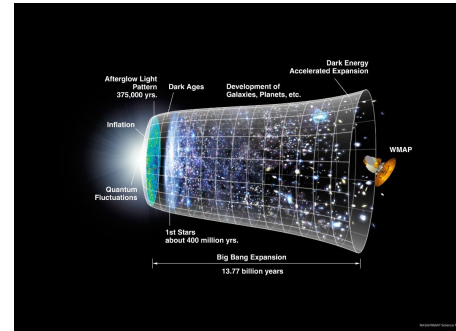


"It doesn't matter how beautiful your theory is, it doesn't matter how smart you are. If it doesn't agree with experiment, it's wrong."

Richard P. Feynman

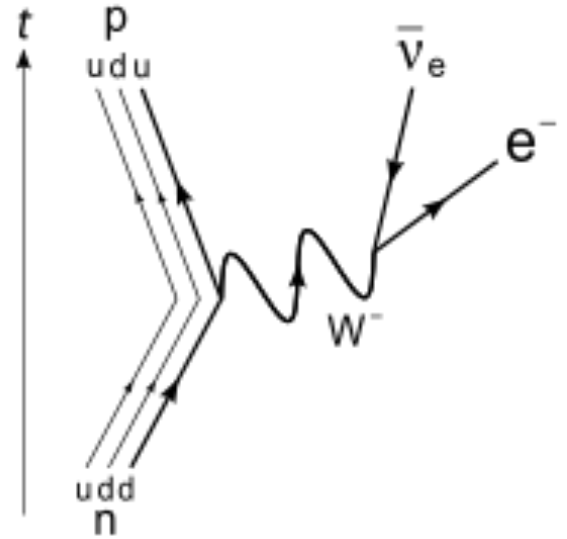
The scope of physics

From the very largest to the very smallest



What are the challenges?

- Breadth of knowledge
- Applying the knowledge
- Solving problems
- Mathematical
- Use of language



What is the course like?

- RHS delivers **AQA** A-level physics
- There are three exams at the end of Y13 for the A-level qualification
- There is no coursework although your practical skills are assessed
- Lab sessions take place every two weeks

What will I study?

- Mechanics
 - Fundamental particles and photons
 - Electricity
 - Waves
- AS paper 1 & 2
Two Hours

Paper 1 (year 12)
Two Hours

- Thermal physics
- Fields
- Nuclear physics

Paper 2 (year 13)
Two Hours

- Astrophysics & Cosmology
- Required Practicals

Paper 3 (year 12 & 13)
Two Hours

What support is available?

- Resources that provide structure
- Regular feedback and diagnostics
- Focused, individualised homeworks
- Drop-in clinics
- Help with the headaches

Enrichment opportunities

- University seminars and lectures
- Specific university taster days
- Lectures by guest speakers
- CERN
- Space Camp

Which universities?

Warwick
Surrey
Oxford
Manchester
Durham
Imperial College
Leicester
Cambridge

Southampton
Bath
Leeds
Glasgow
Sussex
Nottingham
King's College
Loughborough

Reading
Brunel
Royal Holloway
Edinburgh
Exeter
Bristol

What can I do with physics?

Dream jobs
Find a job that shapes the future

With these jobs, you can help tackle challenges, such as...

- Health, demographic change and wellbeing
- Food security, sustainable agriculture and the bio-economy
- Secure, clean and efficient energy
- Smart and clean transport
- Climate action, resource efficiency and raw materials

...And there are so many other interesting jobs in science out there for you to discover!

Jobs listed in the infographic:

- Biomedical engineer
- Neuroscientist
- Immunologist
- Environmental Geriatrician
- Renewable energy engineer
- Geologist
- Ocean Engineer
- Fuel cell engineer
- Mechanical engineer
- Aerospace engineer
- Electrical engineer
- Naval architect
- Dietician
- Zoologist
- Agronomist
- Biochemist
- Data Security Specialist
- Computer Forensic Analyst
- Robotics Engineer
- Software Engineer
- Marine biologist
- Climatologist
- Hydrologist
- Environmental engineer

What can I do with physics?

Zoe
Cardiologist

