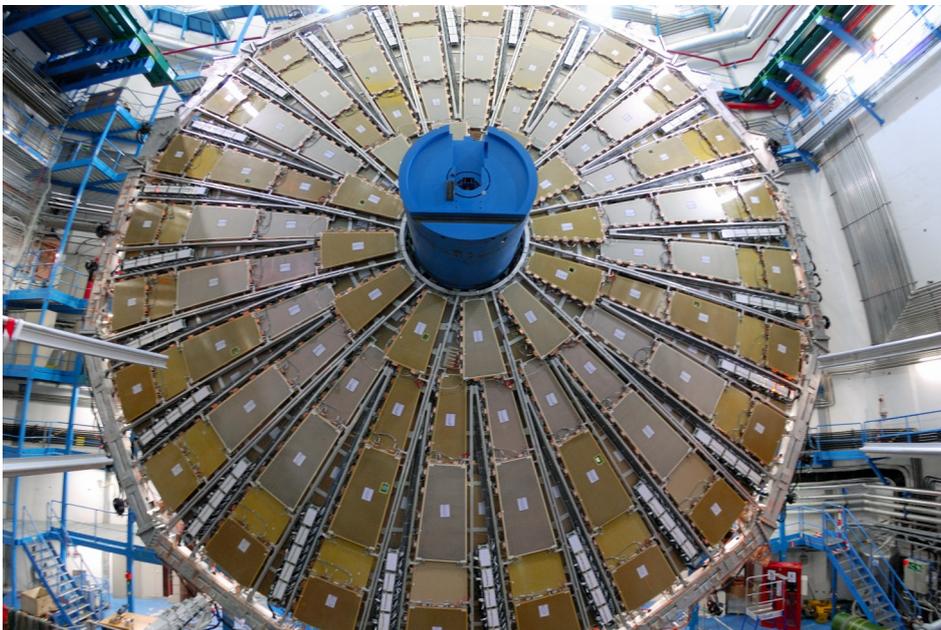


Particle Physics MSc



Particle Physics MSc

Overview

This programme focuses on modern particle physics and provides a thorough grounding for entry to doctoral study in particle physics or related research and an excellent opportunity for professional development in this field. You can choose from a variety of courses, such as Beyond the Standard Model and the Early Universe, but also Collider Physics, and Neutrino and Astroparticle Physics. In this way the course allows you to focus on either the theoretical aspects of particle physics, or concentrate your studies more on the experimental aspects of the field.

Programme of study

(full time)

Your time is split equally between taught courses and a research project in either theoretical or experimental particle physics. You will have a supervisor who oversees your work in general and is responsible for the supervision of your project. Supervisors and topics are allocated, in consultation with you in induction week.

You take six courses in total.

A typical selection for a student doing a theoretical project would be Relativistic Quantum Fields I, General Relativity, Symmetry in Particle Physics, and Further Quantum Mechanics; Relativistic Quantum Fields II; and Beyond the Standard Model.

For a student doing an experimental project it would be Relativistic Quantum Fields I, Further Quantum Mechanics, Data Analysis Techniques and Collider Physics; Neutrino and Astroparticle Physics and Particle Physics Detector Technology.

Teaching for most courses comprises two hours of lectures and a one-hour workshop each week over a 12-week teaching period. You start work on your project during the first teaching period and give an assessed talk on this during the second teaching period (February or March). After the examinations in May, you will work full-time on your project until submitting a written dissertation at the end of July.

(part time)

Distribution of courses over the two years is flexible and will be agreed between you, your supervisor and the course convenor. Most of your project work will naturally fall into the second year.



UK admission requirements

A first- or upper second-class undergraduate honours degree in a physics- or mathematics-based subject. Candidates with lower qualifications are considered only in exceptional circumstances.

Overseas admission requirements

Please refer to column A on the Overseas qualifications table:

www.sussex.ac.uk/study/pg/applying/2012entry/international/overseasqualifications

For a list of available courses please consult our online prospectus:
www.sussex.ac.uk/physics/pgstudy

For more information about our research, visit:
www.sussex.ac.uk/physics/research

For information about Funding and Fees, visit:
www.sussex.ac.uk/physics/pgstudy/funding

Further information

If you have specific questions please contact:

E msc@physics.sussex.ac.uk
T +44 (0)1273 878557

To apply online

Visit **www.sussex.ac.uk/study/pg/applying**