



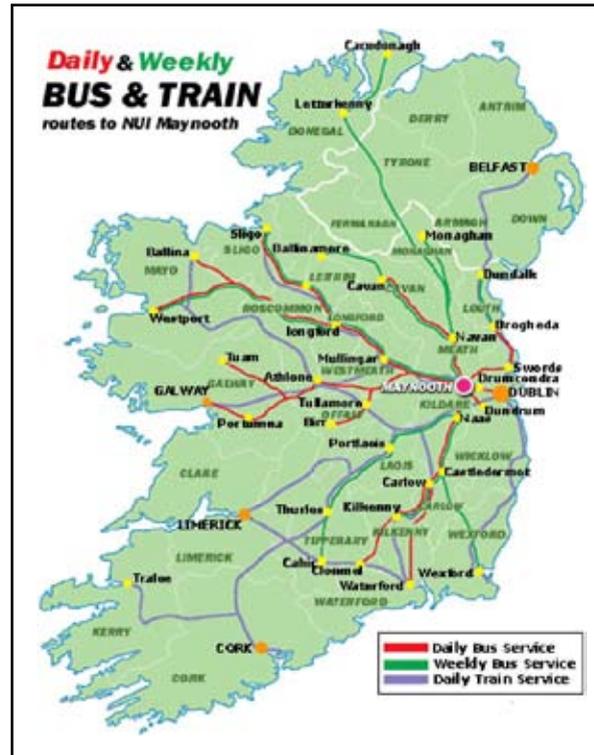
About NUI Maynooth

Situated 25 km west of Dublin city centre, NUI Maynooth is a dynamic and innovative university with some 8,500 students and state-of-the-art research and teaching facilities in science. It also has excellent student facilities: on-campus accommodation, shops, restaurants and a wide range of sports facilities, including a swimming pool and a gym.

NUI Maynooth has strong links with nearby multi-national high-technology companies, in particular Intel and Hewlett-Packard. NUI Maynooth has co-founded, with Intel, the Innovation Value Institute, a world-wide consortium of members drawn from industry, academia and the public sector.

The Experimental Physics Department has a distinguished record in astronomy and space research including numerous successful international space missions such as Giotto, Rosetta, Mars Express, the Herschel Space Observatory and the Planck satellite.

It is easy to travel to NUI Maynooth from many locations in the country. The university is well served by Iarnród Éireann, Dublin Bus, Bus Éireann and private coach operators.



You are welcome to visit our state-of-the-art laboratories and astronomical facilities. If you would like to arrange an informal visit or receive further information on the Experimental Physics Department, our schools programme or the courses on offer, please contact:

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Department of Experimental Physics



NUI MAYNOOTH

Ollscoil na hÉireann Má Nuad

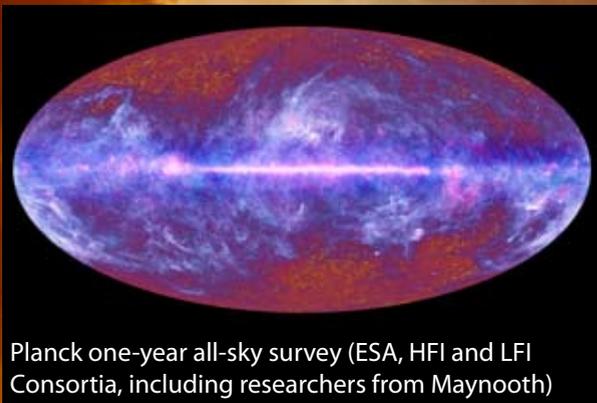
B.Sc. (Honours) in Physics with Astrophysics

Students Say

"I have always had a keen interest in astronomy, and taking the Physics with Astrophysics course in Maynooth has convinced me to look for a career in the aerospace or astrophysics industries. The course is interesting, challenging, and the staff could not be more helpful. The astronomy class sizes are small, so there is a lot of personal attention and one-to-one tutoring."

"For me, studying at Maynooth has been a really enjoyable experience. The staff on the course are extremely helpful and the atmosphere is very friendly."

"The mixture of topics, the emphasis on problem-solving and the excellent team work training will prove invaluable to me in the future. The course is both challenging and fun, and definitely has to be recommended to anyone who wants a broad range of skills with which to enter the job market."



Planck one-year all-sky survey (ESA, HFI and LFI Consortia, including researchers from Maynooth)

Background image: Carina Nebula. Credit: NASA, ESA, N. Smith (University of California, Berkeley), The Hubble Heritage Team (STScI/AURA), and NOAO/AURA/NSF.

Front page image: Orion Nebula. Credit: NASA, ESA, M. Robberto (Space Telescope Science Institute/ESA) and the Hubble Space Telescope Orion Treasury Project Team.

Physics with Astrophysics

CAO code: MH204.

Course requirements: Pass in a science subject, Mathematics, Irish and English.

Students taking this degree option will receive a thorough grounding in all the main areas of physics in addition to courses in a variety of areas related to astronomy and astrophysics.

The course includes topics such as the physics of stars, the interstellar medium, the solar system, cosmology, astronomical instrumentation, relativity and data analysis.

Facilities at NUI Maynooth are first class and include state-of-the-art laboratories: an observatory with a computerised Meade telescope, a solar observatory, an atmospheric physics facility, and radio and cosmic-ray telescopes.

Field trips and scientific visits are organised to other space and astronomical facilities, e.g. L'Observatoire d'Haute Provence (France), the European Space Agency, Jodrell Bank (UK), and Armagh Observatory.



NUI Maynooth students making observations at L'Observatoire d'Haute Provence, France

Postgraduate Study in Astrophysics

Students who obtain a good honours degree are eligible to undertake research for an M.Sc. or Ph.D. degree under the supervision of one of the members of academic staff, many of whom run active research programmes in the area of astrophysics and astronomical instrumentation.

Research groups in the department are heavily involved in European Space Agency missions and other international projects: the Herschel Space Observatory, the Planck Satellite, the SPICA mission, the Atacama Large Millimetre Array, the James Clerk Maxwell Telescope and the QUBIC experiment.



The Jodrell Bank Radiotelescope

Career Options

Students gain experience in pure and applied physics, computational physics and astrophysics during the course. Physics and astrophysics graduates have a wide range of career opportunities open to them in, for example, astrophysics and space science, applied physics, meteorology, medical physics, software engineering, microelectronics, telecommunication engineering, teaching and lecturing.