

Summer University for Plasma Physics and Fusion Research

Garching, 17 - 21 September 2012

Programme

The course will cover the main aspects of plasma physics with emphasis on nuclear fusion: basics of plasma physics and of nuclear fusion – kinetic and magneto-hydrodynamic description of a plasma – concepts, experimental results and optimisation of tokamaks and stellarators – heating and diagnostics of a fusion device – plasma wall interaction and wall material research – safety and environmental aspects of fusion – inertial fusion – astrophysical plasmas – ITER and the next steps towards a reactor. The course will include a tour to the tokamak experiment ASDEX Upgrade and its periphery at IPP. One goal of the Summer University is to promote an exchange of views among the coming generation of European scientists. Opportunities for discussions with lecturers and students will be provided between the sessions, in the evening reception and during an excursion.

Offers

The course (max. 70 participants) is being held for European physics students who have passed their undergraduate / bachelor courses and have not yet decided on the subject of their PhD thesis. The lectures will be presented in English. Lecture notes will be provided to all students. For students registered at European Universities the cost of accommodation and food will be covered by IPP. Limited funds are available for travel expenses. Students coming from ITER-Partner-Countries outside Europe are welcome to take part.

Requirements

Your application via internet must include a high school leaving certificate, evidence of undergraduate physics or engineering diploma / bachelor degree and a short curriculum vitae.

Deadline

31 May 2012

Contact

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Scientific Programme

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Application

www.ipp-summeruni.info