

# Summer University for Plasma Physics and Fusion Research

Greifswald, 21 - 25 September 2009

## Programme

The course will cover the main aspects of plasma physics with emphasis on nuclear fusion. The following lectures will be offered: 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 – ITER and the next steps towards a reactor.

The course will include a tour to the assembly of the superconducting stellarator experiment Wendelstein 7-X and its periphery under construction at IPP. One goal of the Summer University is to promote an exchange of views among the coming generation of European scientists. An opportunity for discussions with lecturers and students will be provided between the sessions, in the evening in Greifswald and during an excursion.

## Offers

The course is being held for European physics students who have passed their undergraduate / bachelor courses and have not yet started a doctoral (PhD) thesis. The lectures will be presented in English. Lecture notes will be provided to all students. The cost of accommodation will be covered by IPP, and subsidies for food will be granted. Limited funds are available for travel expenses. The course is limited to 60 participants.

## Requirements

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

## Deadline

31 May 2009

## Contact

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### Application

[www.ipp-summeruni.info](http://www.ipp-summeruni.info)

### Scientific Programme

Dr. Ralf Kleiber  
Dr. Karl Krieger