



## XX Heidelberg Physics Graduate Days (31.03.-04.04.2008) at the Faculty of Physics and Astronomy of the University of Heidelberg

Courses are conceived for advanced students in physics, in particular for doctoral, masters or diploma students. The goal of the lecture series is to expand the general knowledge of students and to deepen their understanding of special topics and methods. Each course runs every day for five days either in a morning or afternoon slot.

### Morning Courses (Monday to Friday, 9:30-12:30):

<b>Bose-Einstein condensation and quantum transport of ultracold atoms</b>	<b>Peter Schlagheck</b> , University of Regensburg
<b>Practical statistics for high energy physicists</b>	<b>Louis Lyons</b> , Physics Department, Oxford University
<b>Nuclear spin dynamics in solids: computational challenges and microscopic chaos</b>	<b>Boris Fine</b> , Institute of Theoretical Physics, Heidelberg
<b>QCD at finite temperature and density, a matrix model approach</b>	<b>Kim Splittorff</b> , Niels Bohr Institute, Copenhagen
<b>High energy astrophysics</b>	<b>Christopher van Eldik</b> , Max Planck Institute for Nuclear Physics, Heidelberg

### Afternoon Courses (Monday to Friday, 14:00-17:00):

<b>The physics of galaxies: observation versus theory – from the early universe to the present state</b>	<b>Uta Fritze</b> , University of Hertfordshire
<b>Open quantum systems and decoherence</b>	<b>Klaus Hornberger</b> , Ludwig Maximilian University, Munich
<b>New physics at the Large Hadron Collider</b>	<b>Jochen Dingfelder, Stephanie Hansmann-Menzemer and Victor Lendermann</b> , Institute of Physics and Kirchhoff Institute of Physics, Heidelberg
<b>Introduction to nano and molecular electronics</b>	<b>Andreas Komnik</b> , Institute of Theoretical Physics, Heidelberg
<b>LaTeX for physicists</b>	<b>Joachim Lammarsch</b> , University Computing Center, Heidelberg
<b>Unified Modelling Language for object oriented design – a blessing or a curse?</b>	<b>André Schüngel</b> , SNP AG, Heidelberg (Single Lecture, Monday, 17:30-18:30)

### Hans Jensen Invited Lecture

(02.04.2008, 17:30, Great Lecture Theatre, Philosophenweg 12):

**From spinwaves to giant magnetoresistance (GMR) sensors: the story of an invention**

**Professor Peter Grünberg**  
Nobel Laureate in Physics, 2007  
Forschungszentrum Jülich



Deutsche  
Forschungsgemeinschaft  
**DFG**

Registration and further information on the internet under: <http://gsfp.physi.uni-heidelberg.de/graddays/>

