



Heidelberg Graduate School of Fundamental Physics

# XIX Heidelberg Physics Graduate Days 08.10. - 12.10.2007

at the Faculty of Physics and Astronomy  
of the University of Heidelberg

Courses are conceived for advanced students in physics, in particular for doctoral and masters 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 (Mo-Fr, 9:30-12:30):

<b>Tracking in High Energy Physics</b>	<b>Carsten Niebuhr</b> , DESY, Hamburg & <b>Guillaume Leibenguth</b> , IPP, ETH, Zürich
<b>Lattice QCD</b>	<b>Kurt Langfeld</b> , Faculty of Technology, University of Plymouth, UK
<b>Dark Matter in the Universe</b>	<b>Kris Sigurdson</b> , University of British Columbia, Vancouver, Canada
<b>Physics with Antimatter</b>	<b>Carsten Welsch</b> , Kirchhoff Institute of Physics, Heidelberg & <b>Dieter Grzonka</b> , Research Centre Jülich
<b>Philosophy, Science and Environmental Realism</b>	<b>Giridhari Lal Pandit</b> , University of Delhi, India

## Afternoon Courses (Mo-Fr, 14:00-17:00):

<b>International Linear Collider: Physics, Machine, Experiments</b>	<b>Peter Wienemann</b> , Institute of Physics, University of Bonn
<b>Quantum Information and Quantum Optics</b>	<b>Jian-Wei Pan</b> , Institute of Physics, University of Heidelberg
<b>String/Gauge Theory Correspondences in QCD</b>	<b>Kasper Peeters</b> , Institute of Theoretical Physics Utrecht University, The Netherlands
<b>The non-Standard Model Higgs Boson(s)</b>	<b>Riccardo Barbieri</b> , Institute of Theoretical Physics, Scuola Normale Superiore di Pisa, Italy
<b>Global Warming</b>	<b>Klaus Pfeilsticker</b> , Institute of Environmental Physics, University of Heidelberg
<b>Methods from Physics in Finance</b>	<b>Hans Peter Deutsch</b> , d-fine, Frankfurt
<b>Perspectives for avoiding Greenhouse Gases in Germany</b>	<b>N.N.</b> , McKinsey&Company, Cologne (Single lecture, Mo 17:30-18:30)

## Hans Jensen Invited Lecture (11.10.07, 17:30, gHS, Philosophenweg 12):

<b>Endless Universe: A Voyage Beyond the Big Bang</b>	<b>Paul J. Steinhardt</b> Princeton University, U.S.A.
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Registration and further information on the internet under: <http://gradkurs.uni-hd.de/>

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