



30th HEIDELBERG PHYSICS GRADUATE DAYS

8–12 APRIL, 2013
AT THE DEPARTMENT OF PHYSICS AND ASTRONOMY



UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386

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

MODERN COSMOLOGY: FUNDAMENTALS AND CHALLENGES
John Peacock, University of Edinburgh

PRACTICAL STATISTICS FOR PHYSICISTS
Louis Lyons, University of Oxford

DISCRETE SYMMETRIES AND CP VIOLATION
Marco Sozzi, University of Pisa

NONEQUILIBRIUM DYNAMICS OF
CLASSICAL AND QUANTUM SYSTEMS
Peter Schmelcher, University of Hamburg

QUANTUM CHAOS
Sandro Wimberger, Heidelberg University

PRESENTING RESEARCH RESULTS
Ute Leidig, Heidelberg University

AFTERNOON COURSES MONDAY TO FRIDAY, 14:00–17:00

QUANTA, CIPHERS AND COMPUTERS
Artur Ekert, University of Oxford

NEUTRINOS IN COSMOLOGY AND ASTROPHYSICS
Steen Hannestad, Aarhus University

QUANTUM MAGNETISM
Rüdiger Klingeler, Heidelberg University

PROBING THE QUANTUM VACUUM
Holger Gies, University of Jena
Felix Karbstein, Helmholtz Institute Jena

AN INTRODUCTION TO SUSY BREAKING – FROM THEORY TO THE LHC
Jörg Jäckel, Heidelberg University

EPISTEMOLOGY AND METHODOLOGY OF SCIENCE:
CONTOURS, CONTEXTS, THEORIES, INTERFACES, FRONTIERS ...
Giridhari Lal Pandit, University of Delhi

ADDITIONAL LECTURE

MONDAY, 08.04. 2013, 17:30

THE GERMAN »ENERGIEWENDE« –
GLOBAL CONTEXT, CHALLENGES, REALIZATION
Claus Jeschek, **Jörn Kupferschmidt**,
Tillmann Lang, McKinsey&Company

FOLLOWED BY A **GENERAL WELCOME PARTY**

STUDENT REPRESENTATIVES' WELCOME

TUESDAY, 09.04. 2013, 17:15

Richard Hanson, **Simon Murmann**

HANS JENSEN INVITED LECTURE

THURSDAY, 11.04. 2013, 17:30

NEWS FROM THE LHC
Rolf Heuer, CERN

FOLLOWED BY THE **D-FINE BARBECUE**

For registration and further information, see
<http://gsfp.physi.uni-heidelberg.de/graddays>

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