



32nd HEIDELBERG PHYSICS GRADUATE DAYS

7-11 APRIL, 2014
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

(THERMO)DYNAMICS OF LATTICE BOSONS

Pierfrancesco Buonsante, QSTAR Center and CNR-INO Firenze

INFLATIONARY MODELS AND THEIR OBSERVATIONAL TESTS IN THE COSMIC MICROWAVE BACKGROUND

Chris Byrnes, University of Sussex

Björn Malte Schäfer, Heidelberg University

GPU COMPUTING

Holger Fröning, Heidelberg University

GEOMETRY AND TOPOLOGY IN PHYSICS

Timo Weigand, Heidelberg University

DARK MATTER

Joachim Kopp, Max-Planck-Institut für Kernphysik

ANALYZING PERSONAL POTENTIAL FOR YOUR CAREER

Ute Leidig, Heidelberg University

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

NUCLEAR ASTROPHYSICS

Almudena Arcones, GSI, Darmstadt

Camilla Juul Hansen, Heidelberg University

APPLICATIONS OF FREE-ELECTRON LASERS IN PHYSICS, CHEMISTRY, AND BIOLOGY

José Ramón Crespo López-Urrutia, Max-Planck-Institut für Kernphysik

Daniel Rolles and **Robin Santra**, DESY, Hamburg

DYNAMIC THERMALIZATION

Boris Fine, Nazarbayev University, Astana, Kazakhstan

QUANTUM KEY DISTRIBUTION: FROM PRINCIPLES TO IMPLEMENTATIONS

Norbert Lütkenhaus, University of Waterloo, Canada

EXPERIMENTAL ASPECTS OF MOLECULAR ELECTRONICS

Elke Scheer, University of Konstanz

NEUTRINO ASTRONOMY AND ICECUBE

Sebastian Böser, University of Bonn

ADDITIONAL LECTURE

MONDAY, 07.04.2014, 17:30

POWERING AUTOS TO 2020 – A STRATEGIC PERSPECTIVE ON E-MOBILITY

Albert Waas, The Boston Consulting Group

FOLLOWED BY A GENERAL WELCOME PARTY

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

STUDENT REPRESENTATIVES' WELCOME

TUESDAY, 08.04.2014, 17:15

Walter Hahn, **Puneet Murthy**

HANS JENSEN INVITED LECTURE

THURSDAY, 10.04.2014, 17:30

THE BOUNDARY LINE BETWEEN QUANTUM MECHANICS AND CLASSICAL LOGIC

Gerard 't Hooft, Utrecht University

FOLLOWED BY THE D-FINE BARBECUE

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