

HGSP

Heidelberg Graduate School
of Fundamental Physics



XXVIII HEIDELBERG PHYSICS GRADUATE DAYS

10–13 April, 2012

at the Department of Physics and Astronomy of Heidelberg University

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 four days either in a morning or afternoon slot.

Morning Courses | Tuesday to Friday | 9:30-12:30

- »LASER COOLING: FROM SINGLE PARTICLES TO OPTOMECHANICAL SYSTEMS« Marc Bienert, Saarland University
- »THEORY OF STELLAR POPULATIONS« Cesare Chiosi, University of Padua
- »INTRODUCTION TO ECONOPHYSICS« Thomas Guhr, University of Duisburg-Essen
- »DYNAMICS OF MACROMOLECULES« Judith Peters, Université Joseph Fourier, Grenoble
- »NON-LINEAR STRUCTURE FORMATION IN THE UNIVERSE« Volker Springel, Heidelberg Institute for Theoretical Studies
- »INTRODUCTION TO ADS/CFT CORRESPONDENCE« Stefan Theisen, Albert Einstein Institute, Potsdam

Afternoon Courses | Tuesday to Friday | 14:00-17:00

- »TRANSPORT AND DISORDER« Thomas Wellens, University of Freiburg
- »TRACKING DETECTORS, TRACK RECONSTRUCTION AND APPLICATIONS IN PARTICLE PHYSICS« Christian Weiser, University of Freiburg
- »QUANTUM SIMULATION WITH ULTRACOLD ATOMS« Florian Schreck, University of Innsbruck
- »PARTICLE PHYSICS ASPECTS OF COSMOLOGY« Valery Rubakov, Moscow State University
- »PHYSICS AND THE NEUROPHYSIOLOGY OF HEARING« Günther Dosch, Heidelberg University
- »PRESENTING RESEARCH RESULTS« Ute Leidig, Heidelberg University

Additional Lecture | Tuesday, 10.04.2012 | 17:30

- »ENERGY MARKETS – LINKING PHYSICS AND FINANCE« Arne Weber, RWE Supply & Trading
followed by a general welcome party

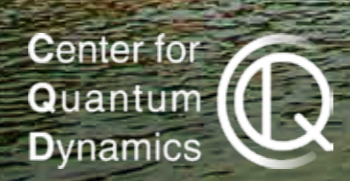
Student Representatives' Welcome and Information Evening for New Doctoral Students | Wednesday, 11.04.2012 | 17:15

Valerie Lang and Frederik Schönebeck

Hans Jensen Invited Lecture | Thursday, 12.04.2012 | 17:30

- »HOW TO TELL QUANTUM CONDENSATES FROM PENDULUM CLOCKS?« Boris Altshuler, Columbia University
followed by the d-fine barbecue

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



Published by the Central Office of the Heidelberg Graduate School of Fundamental Physics, Albert-Ueberle-Str. 3-5, 69120 Heidelberg, all rights reserved

PHOTO: FOTOLIA / MEDIABITEL, COMPOSITION AND GRAPHIC DESIGN: ANKE HEINZELMANN