



H G S F P

Heidelberg Graduate School
of Fundamental Physics



XXIII HEIDELBERG PHYSICS GRADUATE DAYS 05. October – 09. October 2009

at the Department 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

- »THE HELIUM SUPERFLUIDS IN THE ZERO-TEMPERATURE LIMIT:
THE PERFECT MODEL SYSTEMS« George Pickett, Lancaster University
- »STRUCTURE FORMATION IN THE UNIVERSE« Sadegh Khochfar, MPI for Extraterrestrial Physics, Garching
- »ATTOSECOND FLASHES OF LIGHT:
ILLUMINATING ELECTRONIC QUANTUM DYNAMICS« ... Thomas Pfeifer, MPI for Nuclear Physics, Heidelberg
- »PHENOMENOLOGY OF LHC PHYSICS« Tilman Plehn, University of Heidelberg
- »NONLINEAR HAMILTONIAN DYNAMICS« Sandro Wimberger, University of Heidelberg
- »ITER – THE DECISIVE STEPS IN FUSION RESEARCH« Hardo Bruhns, Université libre de Bruxelles (ULB)

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

- »SUPERCONDUCTIVITY IN MESOSCOPIC SYSTEMS« Fabrizio Dolcini, Scuola Normale Superiore and NEST, Pisa
- »THE ART OF CALORIMETRY« Erika Garutti, DESY, Hamburg
- »TOPICS IN STRANGENESS, NUCLEAR AND HADRONIC PHYSICS« ... Avraham Gal, Hebrew University, Jerusalem
- »HIGH-ENERGY NUCLEAR COLLISIONS WITH ALICE AT THE LHC« Kai Schweda, Klaus Reyers, University of Heidelberg
- »RISK IN THE FINANCIAL WORLD« d-fine, Frankfurt
- »STRATEGIES FOR A SUCCESSFUL DOCTORATE:
PROJECT MANAGEMENT, SOCIAL SKILLS, TIME MANAGEMENT« Ute Leidig, University of Heidelberg

Additional Lecture | Monday, 05.10.2009 | 17:30

- »ENERGY: A KEY TO COMPETITIVE ADVANTAGE« Florian Jäger, McKinsey & Company
followed by the McKinsey welcome party

Hans Jensen Invited Lecture | Thursday, 08.10.2009 | 17:30 | Great Lecture Theatre, Philosophenweg 12

- »MAJORANA FERMIONS:
FROM ROMANCE TO REALITY« Frank Wilczek, Massachusetts Institute of Technology, Cambridge
followed by the d-fine barbecue

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



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