



XXIX HEIDELBERG PHYSICS GRADUATE DAYS

8 – 12 October, 2012



Heidelberg Graduate School
of Fundamental Physics

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 five days either in a morning or afternoon slot.

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

- »COSMOLOGY: FROM LIGHT TO DARKNESS« Luca Amendola, Heidelberg University
- »GALAXY FORMATION AND EVOLUTION« Gabriella de Lucia, INAF, Trieste
- »COMPUTATIONAL METHODS IN MODERN (ATOMIC) PHYSICS« Javier Madroñero, TU München
- »PHYSICS OF ANTIMATTER AND PRECISION EXPERIMENTS« Stefan Ulmer and Sven Sturm, CERN, Geneva
- »APPLICATIONS OF NMR IN BIOMEDICINE« Lothar Schad, Heidelberg University, Peter Bachert, DKFZ
- »ANALYZING PERSONAL POTENTIAL FOR PROFESSIONALS« Ute Leidig, Heidelberg University

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

- »ASPECTS OF INFLATIONARY COSMOLOGY« Alexander Westphal, DESY, Hamburg
- »X-RAY ASTRONOMY AND ITS
APPLICATIONS IN COSMOLOGY« David Rapetti, DARK Cosmology Centre, Copenhagen
- »HYDRODYNAMICS OF GALAXY FORMATION« Gerhard Hensler, University of Vienna
- »GAMMA RAY SPECTROSCOPY AND IMAGING« Stanislav Tashenov, Heidelberg University
- »QUANTUM CONTROL AND SIMULATION
WITH SOLID-STATE NMR« Chandrasekhar Ramanathan, Dartmouth College, Hanover
- »CREDIT RISK: MEASUREMENT, VALUATION AND MANAGEMENT« d-fine, Frankfurt

Additional Lecture | Monday, 08.10.2012 | 17:30

- »DISSEMINATING PHYSICS: WORKING
FOR A SCIENTIFIC PUBLISHER« Thomas Pattard, Physical Review A and E, American Physical Society, New York
followed by a general welcome party

HGSFP Annual General Meeting and Student Representatives' Welcome | Tuesday, 09.10.2012 | 17:15

Directorate, HGSFP

Hans Jensen Invited Lecture | Thursday, 11.10.2012 | 17:30

- »HOW COSMOLOGY GREW« P. James E. Peebles, Princeton University
followed by the d-fine barbecue

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



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