HGSFP

Heidelberg Graduate School
of Fundamental Physics

XXV HEIDELBERG PHYSICS GRADUATE DAYS

04. October – 08. October 2010

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

»UNSOLVED PROBLEMS IN MODERN ASTROPHYSICS« ..... **Eva Grebel**, University of Heidelberg

»FIRST PHYSICS AT THE LHC«
..... **Stephanie Hansmann-Menzemer, Klaus Reygers and Rainer Stamen**, University of Heidelberg

»COSMOLOGY – THEORY FOR OBSERVERS AND THEORISTS«
..... **Alan Heavens**, University of Edinburgh

»THE IRON AGE OF SUPERCONDUCTIVITY: FROM CONVENTIONAL TO UNCONVENTIONAL COOPER PAIRING«
..... **Ilya Eremin**, University of Bochum

»COLLISIONS AT ULTRALOW TEMPERATURES« ..... **Axel Görlitz**, University of Düsseldorf

»PRESENTING RESEARCH RESULTS« ..... **Ute Leidig**, University of Heidelberg

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

»GRAVITATIONAL WAVES« ..... **Gerhard Schaefer**, University of Jena

»SEARCHING FOR THE SOURCES OF GALACTIC COSMIC RAYS«..... **Fabrice Feinstein**, University of Montpellier

»NON-PERTURBATIVE APPROACHES TO QCD« ..... **Lorenz von Smekal**, Technical University, Darmstadt

»TOWARDS STATISTICAL THEORY OF BIOMOLECULAR PROCESSES«
..... **Michal Kurzynski**, Adam Mickiewicz University, Poznan

»ON THE ART OF CLIMATE MODELLING – HOW WELL DO WE KNOW THE FUTURE?«
..... **Martin Werner**, Alfred Wegener Institute for Polar Research, Bremerhaven

»A WORLD FULL OF RISK: FROM VALUATION TO RISK MANAGEMENT IN FINANCE« ..... d-fine, Frankfurt

Additional Lecture | Monday, 04.10.2010 | 17:30

»OPEN SOURCE IN ENTERPRISES« ..... **Uwe Schmid**, McKinsey and Company

followed by a general welcome party

Hans Jensen Invited Lecture | Thursday, 07.10.2010 | 17:30 | Great Lecture Theatre, Philosophenweg 12

»SO WHAT REALLY HAPPENS AT ZERO TEMPERATURE?«
..... **Nobel Laureate Douglas D. Osheroff**, Stanford University, USA

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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