HGSFP

Heidelberg Graduate School
of Fundamental Physics

XXII HEIDELBERG PHYSICS GRADUATE DAYS

23. March – 27. March 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

»INTRODUCTION TO SUPERCONDUCTIVITY« ..... **Daoxin Yao**, Purdue University

»EMERGENT PHENOMENA IN QUANTUM MANY BODY SYSTEMS« ..... **Lincoln Carr**, University of Colorado

»ASPECTS OF NANOTECHNOLOGY: NANO QUAKES ON A CHIP« ..... **Achim Wixforth**, University of Augsburg

»NEWS FROM QUANTUM GRAVITY« ..... **Daniel Litim**, University of Sussex

»RETHINKING SCIENCE STUDIES, METHODOLOGY, ETHICS AND THE INTERNATIONAL POLITICAL ECONOMY OF THE ENVIRONMENT« ..... **Giridhari Lal Pandit**, University of Delhi

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

»COMPLEX MATTER ON THE BORDER OF MAGNETISM« ..... **Christos Panagopoulos**, University of Crete

»DIPOLAR QUANTUM GASES« ..... **Matthias Weidemüller**, University of Heidelberg

»OBSERVATIONAL ASTEROSEISMOLOGY« ..... **Mike Reed**, Missouri State University

»SILICON DETECTORS« ..... **Peter Fischer**, University of Heidelberg

»LATTICE QCD – TOPOLOGY AND GEOMETRY IN PHYSICS« ..... **Falk Bruckmann**, University of Regensburg

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

Additional Lecture | Monday, 23.03.2009 | 17:30

»ANALYSING LARGE IT SYSTEMS: A PHYSICIST'S POINT OF VIEW« ..... **Andreas Mielke**, VMS AG
followed by a general Welcome Party

Hans Jensen Invited Lecture | Wednesday, 25.03.2009 | 17:30 | Great Lecture Theatre, Philosophenweg 12

»TESTING THE LIMITS OF QUANTUM MECHANICS: MOTIVATION, STATE OF PLAY, PROSPECTS« ..... **Anthony Leggett**, Nobel Laureate, University of Illinois

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

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