

## SCHEDULE

### Tuesday

- 08:30-09:30 Registration at the foyer of the new  
»Physikalisches Institut«, INF 226  
09:30-12:30 Morning lectures  
12:30-13:30 Lunch, welcome address  
14:00-17:00 Afternoon lectures  
17:30-18:30 Additional lecture  
18:30- ... General welcome party

### Wednesday

- 09:30-12:30 Morning lectures  
12:30-13:30 Lunch  
14:00-17:00 Afternoon lectures  
17:15- ... Student Representatives' Welcome

### Thursday

- 09:30-12:30 Morning lectures  
12:30-13:30 Lunch  
14:00-17:00 Afternoon lectures  
17:30-18:30 Hans Jensen Invited Lecture  
18:30- ... d-fine barbecue

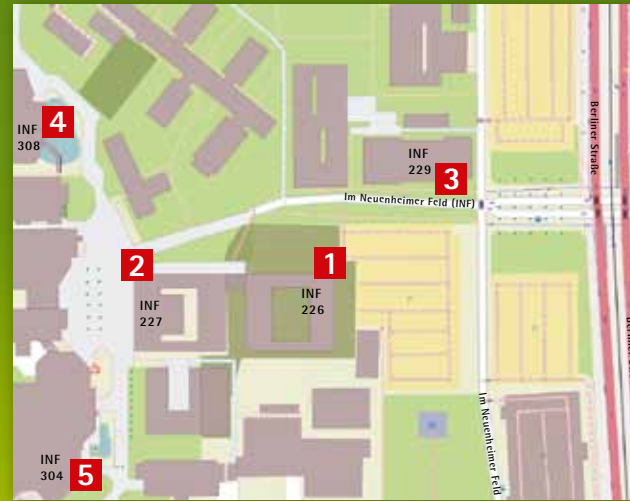
### Friday

- 09:30-12:30 Morning lectures  
12:30-13:30 Lunch  
14:00-17:00 Afternoon lectures

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## MAP

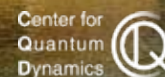


- 1 ..... »Neues Physikalisches Institut«, INF 226  
2 ..... »Kirchhoff-Institut für Physik«, INF 227  
3 ..... »Institut für Umweltphysik«, INF 229  
4 ..... »Hörsäle Physik«, INF 308  
5 ..... »Chez Pierre«, INF 304

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



## SUPPORTED BY



d-fine

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HGSFP

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

## Programme

## REGISTRATION

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All participants are requested to register at the conference office on Tuesday morning between 8:30 and 9:30 a.m. This office will be positioned in the foyer of the new »Physikalisches Institut«, INF 226. You will get your name tags and meal tags there. If you have not paid the conference fee, you should do it in cash then.

At this office, you can obtain further information about the event. There will also be a short welcome address by the organisers on Tuesday during the lunch break, where you can ask further questions.

## PROGRAMME

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### Morning Courses (9:30–12:30)

#### »LASER COOLING: FROM SINGLE PARTICLES TO OPTOMECHANICAL SYSTEMS«

Marc Bienert (Saarland University)  
Room: INF 226 K1

#### »THEORY OF STELLAR POPULATIONS«

Cesare Chiosi (University of Padua)  
Room: INF 226 GL

#### »INTRODUCTION TO ECONOPHYSICS«

Thomas Guhr (University of Duisburg-Essen)  
Room: INF 227 HS2

#### »DYNAMICS OF MACROMOLECULES«

Judith Peters (Université Joseph Fourier, Grenoble)  
Room: INF 227 SB

#### »NON-LINEAR STRUCTURE FORMATION IN THE UNIVERSE«

Volker Springel (Heidelberg Institute for Theoretical Studies)  
Room: INF 227 SR

#### »INTRODUCTION TO ADS/CFT CORRESPONDENCE«

Stefan Theisen (Albert Einstein Institute, Potsdam)  
Room: INF 226 K2/3

### Afternoon Courses (14:00–17:00)

#### »TRANSPORT AND DISORDER«

Thomas Wellens (University of Freiburg)  
Room: INF 227 SR

#### »TRACKING DETECTORS, TRACK RECONSTRUCTION AND APPLICATIONS IN PARTICLE PHYSICS«

Christian Weiser (University of Freiburg)  
Room: INF 226 GL

#### »QUANTUM SIMULATION WITH ULTRACOLD ATOMS«

Florian Schreck (University of Innsbruck)  
Room: INF 226 K1

#### »PARTICLE PHYSICS ASPECTS OF COSMOLOGY«

Valery Rubakov (Moscow State University)  
Room: INF 226 K2/3

#### »PHYSICS AND THE NEUROPHYSIOLOGY OF HEARING«

Günther Dosch (Heidelberg University)  
Room: INF 227 HS2

#### »PRESENTING RESEARCH RESULTS«

Ute Leidig (Heidelberg University)  
Room: INF 227 SB

### Additional Lecture (Tuesday, 17:30–18:30)

#### »ENERGY MARKETS – LINKING PHYSICS AND FINANCE«

Arne Weber (RWE Supply & Trading)  
Room: INF 227 HS1

### Student Representatives' Welcome and Information Evening for New Doctoral Students (Wednesday, 17:15–...)

Valerie Lang and Frederik Schönebeck  
Room: INF 226 GL

### Hans Jensen Invited Lecture (Thursday, 17:30–18:30)

#### »HOW TO TELL QUANTUM CONDENSATES FROM PENDULUM CLOCKS?«

Boris Altshuler (Columbia University)  
Room: INF 227 HS1

## BREAKS AND EVENTS

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Coffee breaks (around 11:00 and 15:30), Foyer, INF 226

Lunch break (12:30–13:30), »Chez Pierre«, INF 304

General welcome party (Tuesday, 18:30–...), Foyer, INF 226

d–fine barbecue (Thursday, 18:30–...), Foyer, INF 226

## LEGEND

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INF 226 K1: »Konferenz 1«, room 00.101  
New »Physikalisches Institut«  
Ground floor

INF 226 K2/3: »Konferenz 2/3«, room 00.102/103  
New »Physikalisches Institut«  
Ground floor

INF 226 GL: Graduate Lounge, room 02.305  
New »Physikalisches Institut«  
2nd floor

INF 227 HS1: »Großer Hörsaal« (Great lecture theatre)  
Kirchhoff Institute for Physics  
Ground floor

INF 227 HS2: »Kleiner Hörsaal« (Small lecture theatre)  
Kirchhoff Institute for Physics  
Ground floor

INF 227 SR: Seminar room, room 03.401  
Kirchhoff Institute for Physics  
3rd floor

INF 227 SB: Seminar box, room 01.107  
Kirchhoff Institute for Physics  
1st floor