

## SCHEDULE

### MONDAY

- 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

### TUESDAY

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

### WEDNESDAY

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

### 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

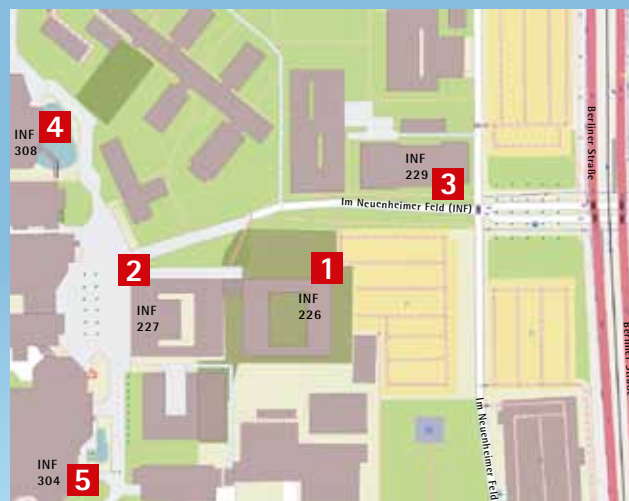
### FRIDAY

- 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 Umwelphysik«, INF 229  
4 ..... »Hörsäle Physik«, INF 308  
5 ..... »Chez Pierre«, INF 304

PHOTO: FOTOLIA / LINE-OF-SIGHT, COMPOSITION AND GRAPHIC DESIGN: ANKE HEINZELMANN



UNIVERSITÄT  
HEIDELBERG  
ZUKUNFT  
SEIT 1386

# 30th HEIDELBERG PHYSICS GRADUATE DAYS 8-12 APRIL, 2013

AT THE DEPARTMENT OF PHYSICS AND ASTRONOMY

## PROGRAMME

SUPPORTED BY:

McKinsey&Company



MAX-PLANCK-INSTITUT  
FÜR KERNPHYSIK

d-fine  
AN DER UNIVERSITÄT HEIDELBERG

FURTHER  
INFORMATION:



## REGISTRATION

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All participants are requested to register at the conference office on Monday morning between 8:30 and 9:30 a.m. This office will be positioned in the foyer of the new »Physikalisches Institut«, INF 226. 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 Monday during the lunch break, where you can ask further questions.

## PROGRAMME

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### MORNING COURSES (9:30–12:30)

MODERN COSMOLOGY:

FUNDAMENTALS AND CHALLENGES

**John Peacock**, University of Edinburgh

*ROOM: TO BE DECIDED*

PRACTICAL STATISTICS FOR PHYSICISTS

**Louis Lyons**, University of Oxford

*ROOM: TO BE DECIDED*

DISCRETE SYMMETRIES AND CP VIOLATION

**Marco Sozzi**, University of Pisa

*ROOM: TO BE DECIDED*

NONEQUILIBRIUM DYNAMICS OF  
CLASSICAL AND QUANTUM SYSTEMS

**Peter Schmelcher**, University of Hamburg

*ROOM: TO BE DECIDED*

QUANTUM CHAOS

**Sandro Wimberger**, Heidelberg University

*ROOM: TO BE DECIDED*

PRESENTING RESEARCH RESULTS

**Ute Leidig**, Heidelberg University

*ROOM: TO BE DECIDED*

### AFTERNOON COURSES (14:00–17:00)

QUANTA, CIPHERS AND COMPUTERS

**Artur Ekert**, University of Oxford

*ROOM: TO BE DECIDED*

NEUTRINOS IN COSMOLOGY AND ASTROPHYSICS

**Steen Hannestad**, Aarhus University

*ROOM: TO BE DECIDED*

QUANTUM MAGNETISM

**Rüdiger Klingeler**, Heidelberg University

*ROOM: TO BE DECIDED*

PROBING THE QUANTUM VACUUM

**Holger Gies**, University of Jena

**Felix Karbstein**, Helmholtz Institute Jena

*ROOM: TO BE DECIDED*

AN INTRODUCTION TO SUSY BREAKING –  
FROM THEORY TO THE LHC

**Jörg Jäckel**, Heidelberg University

*ROOM: TO BE DECIDED*

EPISTEMOLOGY AND METHODOLOGY OF SCIENCE: CON-  
TOURS, CONTEXTS, THEORIES, INTERFACES, FRONTIERS ...

**Giridhari Lal Pandit**, University of Delhi

*ROOM: TO BE DECIDED*

### ADDITIONAL LECTURE (MONDAY, 17:30–18:30)

THE GERMAN »ENERGIEWENDE« –  
GLOBAL CONTEXT, CHALLENGES, REALIZATION

**Claus Jeschek**, **Jörn Kupferschmidt**, **Tillmann Lang**,

McKinsey&Company

*ROOM: TO BE DECIDED*

### STUDENT REPRESENTATIVES' WELCOME

(TUESDAY, 17:15–...)

**Richard Hanson**, **Simon Murmann**

*ROOM: TO BE DECIDED*

### HANS JENSEN INVITED LECTURE

(THURSDAY, 17:30–18:30)

NEWS FROM THE LHC

**Rolf Heuer**, CERN

*ROOM: TO BE DECIDED*

## 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 (MONDAY, 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 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 2.401

Seminar room,  
Kirchhoff Institute for Physics,  
2nd floor

### INF 227 SR 2.402

Seminar room,  
Kirchhoff Institute for Physics,  
2nd floor

### INF 227 SR 2.403

Seminar room,  
Kirchhoff Institute for Physics,  
2nd floor

### INF 227 SR 1.403/ 1.404

Seminar room,  
Kirchhoff Institute for Physics,  
1st floor