

## 1 Registration

All participants are requested to register at the conference office on Monday morning between 8:30 and 9:30 a.m.

The address is: Albert-Ueberle-Str. 3-5, 2<sup>nd</sup> floor, room 260 of Mrs. Buchhaupt ( +49 6221 54 9285). 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 lunchbreak, where you can ask further questions.

## 2 Programme

### 2.1 Morning lectures (9:30-12:30)

#### **Bose-Einstein condensation and quantum transport of ultracold atoms**

Peter Schlagheck (University of Regensburg)  
Phil 12 kHS

#### **Practical statistics for physicists**

Louis Lyons (Oxford University)  
Phil 12 gHS

#### **Nuclear spin dynamics in solids: computational challenges and microscopic chaos**

Boris Fine (University of Heidelberg)  
Phil 12 SR

#### **QCD at finite temperature and density, a matrix model approach**

Kim Splittorff (Niels Bohr Institute, Copenhagen)  
A-Ue 3-5 SR

#### **High Energy Astrophysics**

Christoph van Eldik (MPI-K Heidelberg)  
A-Ue 3-5 Bib

### 2.2 Afternoon lectures (14:00-17:00)

#### **The Physics of Galaxies: Observation versus Theory – from the early universe to the present state**

Uta Fritze (University of Hertfordshire)  
Phil 12 gHS

#### **Open quantum systems and decoherence**

Klaus Hornberger (University of Munich)  
Phil 12 kHS

#### **New physics at the Large Hadron Collider**

Stephanie Hansmann-Menzemer  
Jochen Dingfelder & Victor Lendermann  
(University of Heidelberg)  
A-Ue 3-5 Bib

#### **Introduction to nano and molecular electronics**

Andreas Komnik (University of Heidelberg)  
A-Ue 3-5 SR

#### **LaTeX for physicists**

Joachim Lammarsch (University of Heidelberg)  
Psy 47-51

#### **SNP Single Lecture (Monday 17:30-18:30) Unified Modelling Language for object oriented design – a blessing or a curse?**

André Schüngel (SNP AG, Heidelberg)  
Phil 12 gHS

### 2.3 Hans Jensen Invited Lecture (Wednesday, 17:30)

#### **From spinwaves to giant magnetoresistance (GMR) sensors: the story of an invention**

Prof. Peter Grünberg  
(Forschungszentrum Jülich)  
Phil 12 gHS

## 3 Breaks and Events

### 3.1 Coffee breaks (around 11:00 and 15:30)

### 3.2 Lunch break (12:30-14:00)

### 3.3 General welcome party (Monday, 18:30- ...)

### 3.4 d–fine barbecue (Wednesday, 19:30- ...)

## 4 Legend

Phil 12 gHS:	“Großer Hörsaal” (Large lecture theatre), 1 <sup>st</sup> floor, Institute of Physics, Philosophenweg 12
Phil 12 kHS:	“Kleiner Hörsaal”, (Small lecture theatre) 2 <sup>nd</sup> floor, Institute of Physics, Philosophenweg 12
Phil 12 SR:	Seminar room, 3 <sup>rd</sup> floor, Institute of Physics, Philosophenweg 12
A-Ue 3-5 Bib:	former library, 3 <sup>rd</sup> floor, Institute of Physics, Albert-Ueberle-Str. 3-5
A-Ue 3-5 SR:	Seminar room, 1 <sup>st</sup> floor, Institute of Physics, Albert-Ueberle-Str. 3-5
Phil 19 SR:	Seminar room, Institute of Theoretical Physics Philosophenweg 19
Psy 47-51: CIP-Pool	Computer room Institute of Psychology Hauptstraße 47-51

## 5 Schedule

### Monday

08:30-09:30 Registration at  
Albert-Ueberle-Str. 3-5,  
2<sup>nd</sup> floor, room 260

09:30-12:30 Morning lectures

12:30-14:00 Lunch, welcome address

14:00-17:00 Afternoon lectures

17:30-18:30 SNP industry lecture

18:30- ... general welcome party

### Tuesday

09:30-12:30 Morning lectures

12:30-14:00 Lunch

14:00-17:00 Afternoon lectures

### Wednesday

09:30-12:30 Morning lectures

12:30-14:00 Lunch

14:00-17:00 Afternoon lectures

17:30-19:00 Hans Jensen Invited Lecture  
Philosophenweg 12,  
"Großer Hörsaal"

19:30- ... d-fine barbecue

### Thursday

09:30-12:30 Morning lectures

12:30-14:00 Lunch

14:00-17:00 Afternoon lectures

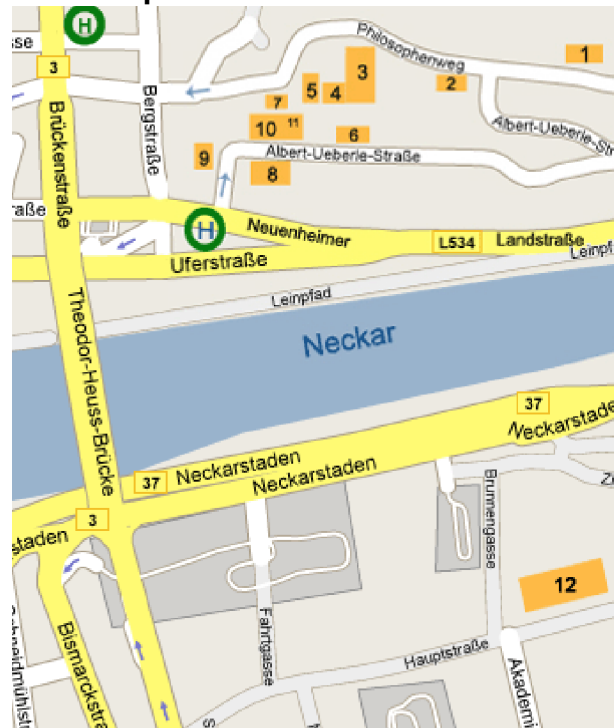
### Friday

09:30-12:30 Morning lectures

12:30-14:00 Lunch

14:00-17:00 Afternoon lectures

## 6 Map



- 01 Institute of Theoretical Physics, Seminar Room, Philosophenweg 19
- 02 Institute of Theoretical Physics, library, Philosophenweg 16
- 03 Institute of Physics, "Kleiner Hörsaal", Philosophenweg 12
- 04 Institute of Physics, "Großer Hörsaal", Philosophenweg 12
- 05 Institute of Physics, Technical workshop, Philosophenweg 12
- 06 "Neuer Hörsaal", Albert-Ueberle-Str. 7
- 07 Institute of Physics, Technical workshop, Philosophenweg 12
- 08 Institute of Theoretical Astrophysics, Albert-Ueberle-Str. 2
- 09 Albert-Ueberle-Str. 1
- 10 Dean of the Faculty of Physics and Astronomy, Albert-Ueberle-Str. 3-5
- 11 Central Office, Graduate School of Fundamental Physics
- 12 CIP Pool of the Institute of Psychology, Hauptstr. 47-51

## 7 Supported by



# XX HEIDELBERG PHYSICS GRADUATE DAYS 31.03. - 04.04.2008

at the Faculty of  
Physics and Astronomy  
of the University of Heidelberg

## Programme

