

SCHEDULE

MONDAY

- 08:30–09:30 Registration at the foyer of the
»Physikalisches Institut«, INF 226
- 09:30–12:30 Morning lectures
- 12:30–13:30 Lunch
- 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 »Physikalisches Institut«, INF 226
- 2 »Kirchhoff-Institut für Physik«, INF 227
- 3 »Institut für Umweltphysik«, INF 229
- 4 »Hörsäle Physik«, INF 308
- 5 »Mensa Area E«, INF 304



UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386

42nd HEIDELBERG PHYSICS GRADUATE DAYS

April 8–12, 2019

AT THE DEPARTMENT OF PHYSICS AND ASTRONOMY

PROGRAMME

SUPPORTED BY:



d-fine

FURTHER INFORMATION:



PROGRAMME

MORNING COURSES (9:30–12:30)

RANDOM MATRICES: UNIVERSALITY IN DISORDERED QUANTUM SYSTEMS

Torben Krüger, University of Bonn *INF 226 K1/2/3*

PAST, PRESENT AND FUTURE CHALLENGES IN THE DETERMINATION OF THE STRUCTURE OF THE PROTON

Maria Ubiali, University of Cambridge *INF 227 SR 1.403/404*

SHINING LIGHT ON QUANTUM MATERIALS: LESSONS FROM OPTICAL SPECTROSCOPY

Ana Akrap, Université de Fribourg *INF 227 SR 3.403/404*

APPLICATIONS OF NMR IN BIOMEDICINE

Lothar Schad and Mathias Davids, Heidelberg University *INF 227 SR 3.402*

CLIMATE SCIENCE AND ITS IMPLICATIONS

Werner Aeschbach, Heidelberg University *INF 227 HS2*

AFTERNOON COURSES (14:00–17:00)

FROM COSMOLOGICAL OBSERVATIONS TO DARK ENERGY AND MODIFIED GRAVITY

Andy Taylor, University of Edinburgh *INF 227 HS2*

INTRODUCTION TO PYTHON FOR PHYSICISTS

Thomas Erben, University of Bonn *INF 227 CIP POOL*

PROTOCELLS AND THE ORIGIN OF LIFE

Judith Peters, Université Grenoble Alpes *INF 227 SR 1.403/404*

COMPUTATIONAL APPROACHES FOR QUANTUM MANY-BODY SYSTEMS

Martin Gärttner, Heidelberg University *INF 226 K1/2/3*

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

FROM PHYSICS TO MACHINE LEARNING

Björn Andres, Bosch Center for AI *INF 227 HS2*

STUDENT REPRESENTATIVES' WELCOME (TUESDAY, 17:15–...)

INF 226 K1/2/3

HANS JENSEN INVITED LECTURE (THURSDAY, 17:30–18:30)

QUANTUM LEGO: BUILDING AND EXPLORING QUANTUM MATTER ATOM BY ATOM

Markus Greiner, Harvard University *INF 227 HS1*

BREAKS AND EVENTS

COFFEE BREAKS (AROUND 11:00 AND 15:30)

FOYER, INF 226

LUNCH BREAK (12:30–13:30)

»MENZA AREA E«, *INF 304*

GENERAL WELCOME PARTY (MONDAY, 18:30–...)

FOYER, INF 226

D-FINE BARBECUE (THURSDAY, 18:30–...)

FOYER, INF 226

LEGEND

INF 226 K1/2/3	»Konferenz 1/2/3« Room 00.101–00.103 »Physikalisches Institut« Ground floor
INF 227 HS1	»Großer Hörsaal« Kirchhoff Institute for Physics Ground floor
INF 227 HS2	»Kleiner Hörsaal« Kirchhoff Institute for Physics Ground floor
INF 227 CIP POOL	»CIP POOL« Room 01.401 Kirchhoff Institute for Physics 1st floor
INF 227 SR 1.403/404	Seminar room Kirchhoff Institute for Physics 1st floor
INF 227 SR 3.402	Seminar room Kirchhoff Institute for Physics 3rd floor
INF 227 SR 3.403/404	Seminar room Kirchhoff Institute for Physics 3rd floor

REGISTRATION

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

This office will be positioned in the foyer of the »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.