SCHEDULE

TUESDAY

09:30–12:30 Morning lectures 12:30–14:00 Lunch break 14:00–17:00 Afternoon lectures 17:30–18:30 Additional lecture

09:30-12:30 Morning lectures

WEDNESDAY

12:30–13:30 Lunch break
14:00–17:00 Afternoon lectures
17:15– ... Student representatives' welcome and information for new students

THURSDAY

09:30–12:30 Morning lectures 12:30–14:00 Lunch break 14:00–17:00 Afternoon lectures 17:30–18:30 Hans Jensen Invited Lecture

FRIDAY

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

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MORNING COURSES (9:30-12:30)

THE LARGE HADRON COLLIDER: A NEW ERA OF PARTICLE PHYSICS AT THE ENERGY FRONTIER **Karsten Köneke**, University of Freiburg

FUNDAMENTAL PHYSICS WITH GRAVITATIONAL WAVES Kai Schmitz, CERN

SOFT MATTER MEETS ULTRAFAST SPECTROSCOPY Laura Cattaneo, Max Planck Institute for Nuclear Physics

FIGHTING CANCER WITH PHYSICS – A JOURNEY THROUGH THE FIELD OF PARTICLE THERAPY Julia Bauer, Heidelberg University Hospital

UNDERSTANDING THE CLIMATE CRISIS
AND THE REQUIREMENTS FOR ITS SOLUTION
Werner Aeschbach, Heidelberg University

AFTERNOON COURSES (14:00 –17:00)

PRECISION EXPERIMENTS WITH COOLED AND STORED EXOTIC IONS

Tommi Eronen, University of Jyväskylä

THE EPOCH OF REIONIZATION OF THE UNIVERSE. UNDERSTANDING GALAXY EVOLUTION AND THE UNIVERSE FROM ITS LAST PHASE TRANSITION

Fred Davies, Max Planck Institute for Astronomy

INTRODUCTION TO THE ADS/CFT DUALITY – FROM STRINGS & BLACK HOLES TO QUANTUM FIELD THEORIES AND BACK

Martin Ammon, University of Jena

FROM BAYES TO MACHINE LEARNING Roberto Trotta, Imperial College London

GEOMETRIC ALGEBRA FOR PHYSICISTS **Maarten DeKieviet**, Heidelberg University

INDUSTRIAL APPLICATIONS OF QUANTUM COMPUTING **Henning Soller,** McKinsey and Heidelberg University

ZOOM ETIQUETTE

Please use the zoom meeting etiquette:

- · log in with your full name
- use the hand raising icon and wait until you can ask a question
- mute yourself unless you are asking a question

NOTE

Please note that the Grad Days are taking place online only.

All registered participants will be given more info in the week prior to the Grad Days, in particular the online details.

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

LUNCH BREAK (12:30-14:00)

ADDITIONAL LECTURE

(TUESDAY, 17:30-18:30)

ENTROPY PHENOMENA IN SOFTWARE PROJECTS AND LARGE ORGANIZATIONS

Jan-Markus Schwindt, SAP SE, Walldorf

STUDENT REPRESENTATIVES' WELCOME

(WEDNESDAY, 17:15-...)

HANS JENSEN INVITED LECTURE

(THURSDAY, 17:30-18:30)

A FORTY-YEAR JOURNEY?

Reinhard Genzel, Max Planck Institute for Extraterrestrial Physics, Garching

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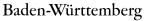






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