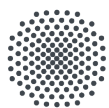


Overview Courses - Workload 1st and 2nd Semester (60 ECTS)

1st Semester - 30 ECTS	2nd Semester - 30 ECTS
Advanced Experimental Physics 9 ECTS (graded) Exam: End of 1st Semester Condition: Passed exercises	<u>Advanced Condensed Matter Physics</u> 6 ECTS (graded) <u>Exam: End of 2nd Semester</u> Condition: Passed exercises
Advanced Quantum Theory 9 ECTS (graded) Exam: End of 1st Semester Condition: Passed exercises	<u>Elective Lecture 2</u> • Advanced Statistical Physics • Quantum Field Theory • Solid State Spectroscopy • Solid State Theory 9 ECTS (graded) <u>Exam: End of 2nd Semester</u> Condition: Passed exercises
<u>Elective Lecture 1 (PART II)</u> • Advanced Atomic Physics II • Quantum Computing II • Quantum Technologies II • Module Quantum Materials combine 2 of the following: Magnetism; Low-Dimensional Materials; Superconductivity; Topological Aspects • Simulation Methods in Physics II 9 ECTS (graded) <u>Exam: End of 2nd Semester</u> Condition: Passed exercises I&II	
<u>Advanced Physics Lab</u> 12 ECTS Course-related contributions	
Seminar in Physics 3 ECTS Course-related contributions	<u>Advanced Seminar in Physics*</u> <u>3 ECTS (graded)</u> <u>Course-related contributions</u>



Compulsory Courses

- Advanced Condensed Matter Physics**

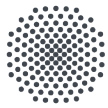
Lecture Jun.-Prof. Dr. Stefan Kaiser Via ILIAS	Mondays 11.30 am – 1 pm Thursday 9.45 am – 10.30 am Starting Date: 20.04.2020
Exercises Jun.-Prof. Dr. Stefan Kaiser via Skype/Zoom	Wednesdays 2 pm – 3.30 pm Starting Date: 22.04.2020

- Advanced Seminar in Physics***

Time Dependence and Dynamics in Strongly Correlated Electrons Prof. Dr. Maria Daghofer	Monday, 20.04.2020 8 am – 9.30 am Materials on ILIAS, Test-Talks on Webex
Ultrafast Nanooptics and Plasmonics Prof. Dr. Harald Gießen	Block Seminar in the Summer
Modern Quantum Physics: Theory and Experiment Prof. Dr. Eric Lutz	Tuesdays 2 pm – 4 pm Starting Date: 21.04.2020 Via ILIAS and Webex
Nanooptics and Nanophotonics Prof. Dr. Peter Michler Dr. Michael Jetter Dr. Simone Portalupi	Thursdays 2 pm – 3.30 pm Starting Date: 23.04.2020 Via ILIAS and Webex
Physics of Climate Change Prof. Dr. Tilman Pfau Dr. Tim Langen	Thursdays 5 pm – 6.30 pm Starting Date: 23.04.2020 Via ILIAS and Zoom
Topological Aspects of Condensed Matter Physics Prof. Dr. Martin Dressel Prof. Dr. Sebastian Loth	Block Seminar (24.6. - 26.6.2020)
Quantum Technologies Prof. Dr. Stefanie Barz	Compact Seminar 04.06.2020 – 05.06.2020 (Thursday and Friday) 9 am – 5 pm Allmandring 3 – Seminar Room IHFG

- Advanced Physics Lab (2nd Semester)**

Laboratory Dr. Bruno Gompf	Delayed until further notice
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Elective Courses (Parts II)

- Advanced Atomic Physics II

Lecture Prof. Dr. Tilman Pfau Via ILIAS and Zoom	Wednesdays 1 pm – 2.30 pm Starting Date: 22.04.2020
Exercises Prof. Dr. Tilman Pfau Via ILIAS and Zoom	Wednesdays and/or 2.45 pm – 4.15 pm Thursdays 2.30 pm – 4 pm Starting Date: 22.04.2020

- Physics of Soft and Biological Matter II

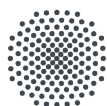
Lecture Dr. Paolo Margaretti Via ILIAS	Fridays 8 am – 9.30 am Starting Date: 24.04.2020
Exercises Dr. Paolo Margaretti Via ILIAS and Webex	Fridays 1 pm – 2.30 pm Starting Date: 24.04.2020

- Quantum Technologies II

Lecture Prof. Dr. Stefanie Barz Via ILIAS	Wednesdays 1.15 pm – 2.45 pm Starting Date: 22.04.2020
Exercises Prof. Dr. Stefanie Barz Via ILIAS	Thursdays 3.45 pm – 5.15 pm Starting Date: 23.04.2020

- Quantum Computing II

Lecture Prof. Dr. Jörg Wrachtrup Via ILIAS	Wednesdays 9.45 am – 11.15 am Starting Date: 22.04.2020
Exercises Prof. Dr. Jörg Wrachtrup Via ILIAS	Thursdays 1.30 pm – 3 pm Starting Date: 22.04.2020



- Simulation Methods in Physics II

Lecture Prof. Dr. Holm, Apl. Prof. Dr. Fyta Via ILIAS	Thursdays 11.30 am – 1 pm Starting Date: 23.04.2020
Exercises Prof. Dr. Holm, Apl. Prof. Dr. Fyta Via ILIAS	Thursdays 9.45 am – 11.15 am Starting Date: 23.04.2020

- Topological Aspects of Condensed Matter Physics (Module Quantum Materials)

Lecture Dr. Artem Pronin Via ILIAS	Fridays 9.45 am – 11.15 am Starting Date: 24.04.2020
Exercises Dr. Artem Pronin Via ILIAS	Thursdays 2 pm – 3.30 pm Starting Date: 23.04.2020

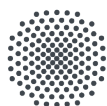
Elective Courses

- Advanced Statistical Physics

Lecture Prof. Dr. Udo Seifert, Dr. Lukas Oberreiter Via ILIAS and Zoom	Wednesdays 11.30 am – 1 pm Fridays 11.30 am – 1 pm Starting Date: 22.04.2020
Exercises Prof. Dr. Udo Seifert, Dr. Lukas Oberreiter Via ILIAS and Zoom	Thursdays or 2 pm – 3.30 pm Fridays 2 pm – 3.30 pm Starting Date: 23.04.2020

- Quantum Field Theory

Lecture Dr. Nicolai Lang Via ILIAS	Wednesdays 8 am – 9.30 am Fridays 2 pm – 3.30 pm Starting Date: 22.04.2020
Exercises Dr. Nicolai Lang Via ILIAS	Fridays 11.30 am – 1 pm and/or 3.30 pm – 5 pm Starting Date: 24.04.2020



- Solid State Spectroscopy

Lecture Prof. Dr. Bernhard Keimer, Dr. Eva Benckiser PD Dr. Christian Ast, Dr. Matthias Hepting Via ILIAS	Mondays 9.45 am – 11.15 am Thursdays 11.30 am – 1 pm Starting Date: 20.04.2020
Exercises Prof. Dr. Bernhard Keimer, Dr. Eva Benckiser PD Dr. Christian Ast, Dr. Matthias Hepting Via ILIAS	Thursdays 1.30 pm – 3 pm Starting Date: 23.04.2020

- Solid State Theory

Lecture Prof. Dr. Maria Daghofer Via ILIAS and Webex	Wednesdays 9.45 am – 11.15 am Fridays 2 pm – 3.30 pm Starting Date: 22.04.2020
Exercises Prof. Dr. Maria Daghofer Via ILIAS and Webex	Wednesdays 11.30 am – 1 pm Starting Date: 22.04.2020