

# Teaching Activities

## Summer Semester 2020

**Akhmedov, E.:**

*Neutrino theory and phenomenology (Lightning review).*

*Particle Physics Beyond the Standard Model and Colliding Pizza Seminar*

Ruprecht-Karls-Universität Heidelberg/MPIK, HD

*Neutrino physics.*

Moscow International School of Physics, Moscow, Russia

Organized by Lebedev Institute, Higher School of Economics and Skolkovo Institute of Science and Technology

**Bally A.:**

*Quantum Field Theory I. (Tutorial)*

Ruprecht-Karls-Universität Heidelberg, Germany

**Blaum K., Wolf A.:**

*Oberseminar: Physik mit gespeicherten und gekühlten Ionen.*

Universität Heidelberg

**Cattaneo, L.:**

*Online, Master Student Seminar (graduate-level): "Attosecond Metrology RABBITT and attosecond streaking techniques"*

Universität Heidelberg

**Crespo López-Urrutia, J. R.:**

*Experimental Methods in Atomic, Molecular and Optical Physics, lecture (3 SWS, 4 CP) with exercises,*

Universität Heidelberg

**Di Piazza, A.:**

*Practice class: Exercise on Advanced Quantum Field Theory (QFT II)*

Heidelberg University

**Evers, J.:**

*Lecture: Theoretical Quantum Optics*

Heidelberg University

**Harman, Z.:**

*Practice class: Übungen zur Experimentalphysik IV*

Heidelberg University

**Keitel, C. H., Tamburini, M.:**

*Advanced seminar: Theoretical Quantum Dynamics*

Heidelberg University

**Lindner, M.:**

*Looking for the invisible Universe: Dark Matter and Neutrinos.*

*Teilchen- und Astroteilchen-Theorie.*

Ruprecht-Karls-Universität Heidelberg, Germany

**Marrodán Undagoitia, T.:**

*Experimental methods in astroparticle physics: dark matter and neutrinos properties.*

Ruprecht-Karls-Universität Heidelberg

**Moshhammer, R.:**

*Master Student Seminar (graduate-level), "AMO Physics" (with Prof. Dr. Thomas Pfeifer, PD Dr. Natalia Oreshkina, PD Dr. Wolfgang Quint, PD Dr. Bernold Feuerstein),*

Universität Heidelberg (online)

Group Seminar: Dynamics and Structure of Atoms and Molecules, MPIK (online)

**Ott, C.:**

*Special Lecture "Ultrafast Strong-Field Physics"*

2 Semesterwochenstunden

Universität Heidelberg

*Absorption spectroscopy with intense XUV sources*

ELI Summer School (ELISS 2020), Online Event (26.08. – 28.08.2020)

ELI-ALPS, Szeged, Hungary

**Pálffy-Buß, A.:**

*Practice class: Übungen zur Experimentalphysik II*

Heidelberg University

**Pfeifer, T.:**

***Master Student Seminar (graduate-level), "AMO Physics" (with PD Dr. Robert Moshhammer, PD Dr. Natalia Oreshkina, PD Dr. Wolfgang Quint, PD Dr. Bernold Feuerstein),***

Universität Heidelberg (online)

***Journal Club on Quantum Dynamics and Control (with Dr. Anne Harth),***

MPIK (online)

***Group Seminar: Dynamics and Structure of Atoms and Molecules (with PD Dr. Robert Moshhammer),***

MPIK (online)

**Saake, P.:**

***Übungsgruppe General Relativity.***

Ruprecht-Karls-Universität Heidelberg

**Schwenk, A.:**

***Effective field theory and many-body theory.***

TU Darmstadt

**Wolf A., Kreckel H.:**

***Schlüsselexperimente der Atom- und Molekülphysik.***

Universität Heidelberg

## Winter Semester 2020/2021

**Blaum K., Mooser, A.:**

*Stored Charged Particles - Precision experiments with stored and cooled particles.*  
Universität Heidelberg (Online)

**Blaum K., Wolf A.:**

*Oberseminar: Physik mit gespeicherten und gekühlten Ionen.*  
Universität Heidelberg (Online)

**Cattaneo, L.:**

*Tutor: Exercises Advanced Atomic, Molecular and Optical Physics (AAMOP),*  
Universität Heidelberg, Lecturer: Prof. Weidemueller (online)

**Crespo López-Urrutia, J. R.:**

*Schlüsselexperimente der Quantenphysik, mandatory bachelor seminar (with Dr. Christian Ott) (2 SWS, 3 CP),*  
Universität Heidelberg

**Di Piazza, A.:**

*Lecture: Quantum Electrodynamics*  
Heidelberg University

**Dorn, A.:**

*Tutor: Exercises Advanced Atomic, Molecular and Optical Physics (AAMOP)*  
Universität Heidelberg

**Evers, J.:**

*Practice class: Tutorials to Atomic, Molecular and Optical Physics*  
Heidelberg University

**Goertz, F.:**

*Beyond the Standard Model: Composite Higgs and Extra Dimensions.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Harman, Z.**

*Practice class: Übungen zur Experimentalphysik III*  
Heidelberg University

**Hinton, J.:**

*Ground-Based Gamma-Ray Astronomy*  
Online, Hsinchu, Taiwan, lectures at NTHU/NCTS Astronomy Winter School on High-Energy Astrophysics

**Hofmann, W.:**

*Gamma Ray Astronomy with Cherenkov Telescopes - Past, Present and Future*  
Online, Hsinchu, Taiwan, Keynote lecture at NTHU/NCTS Astronomy Winter School on High-Energy Astrophysics

**Keitel, C. H., Tamburini, M.:**

*Advanced seminar: Theoretical Quantum Dynamics*  
Heidelberg University

**Lindner, M., Rodejohann, W.:**

*The Standard Model II.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Lindner, M.:**

*Teilchen- und Astroteilchen-Theorie.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Marrodán Undagoitia, T.:**

*Liquid xenon detectors.*  
*HighRR lecture week*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Moshhammer, R.:**

*Übungen zur Vorlesung (Recitation/Tutorials): Advanced Atomic, Molecular and Optical Physics,*  
Universität Heidelberg (online)  
Group Seminar: Dynamics and Structure of Atoms and Molecules, MPIK (online)

**Oreshkina, N. S.:**

*Lecture: Quantum Electrodynamics: Theory and Modern Experiments*  
*(together with Quint, W.)*  
Heidelberg University

**Ott, C. (together with José Crespo):**

**Bachelor-Pflichtseminar "Schlüsselexperimente der Quantenphysik"**

2 Semesterwochenstunden

Universität Heidelberg

**Pfeifer, T.:**

**Master Student Seminar (graduate-level): "Your Passion for (AMO) Physics: What are You Curious About?"**,

Universität Heidelberg (online)

**Journal Club: "Quantum Dynamics and Control" (with Dr. Anne Harth),**

MPIK (online)

**Group Seminar: Dynamics and Structure of Atoms and Molecules (with PD Dr. Robert Moshhammer),**

MPIK (online)

**Reville, B.:**

**Lecture course – Theoretical Astrophysics II**

University of Heidelberg

**Schmelling, M.:**

**Statistische Methoden der Datenanalyse II**

TU Dortmund (Blockkurs 2020)

**Schwenk, A.:**

**Nuclear Theory.**

TU Darmstadt

**Volmer, N.:**

**Theoretical Statistical Physics (Tutorial)**

Ruprecht-Karls-Universität Heidelberg, Germany

## Summer Semester 2021

**Bally A.:**

***Quantum Field Theory II. (Tutorial)***

Ruprecht-Karls-Universität Heidelberg, Germany

**Blaum K., Wolf A.:**

***Oberseminar: Physik mit gespeicherten und gekühlten Ionen.***

Universität Heidelberg

**Blaum, K.:**

***Atomic Physics Precision Experiments.***

Vorlesung im Rahmen der virtuellen "International Physics School on Muon Dipole Moments and Hadronic Effects", Mainz, Germany (01.09.2021)

**Cattaneo, L.:**

***4x3hr Lecture Series: "Soft matter meets ultrafast spectroscopy", 46th HGSFP Graduate Days,***

Universität Heidelberg (online)

***Master Student Seminar (graduate-level): "An ultrafast look to liquid crystals",***

Universität Heidelberg (online)

**Crespo López-Urrutia, J. R.:**

***Experimental Methods in Atomic, Molecular and Optical Physics, lecture (3 SWS, 4 CP) with exercises,***

Universität Heidelberg

**Di Piazza, A.:**

***Lecture: Advanced Topics in QED***

Heidelberg University

**Evers, J.:**

***Lecture: Theoretical Quantum Optics***

Heidelberg University

**Goertz, F., Lindner, M.:**

***Looking for the invisible Universe: Dark Matter and Neutrinos.***

Ruprecht-Karls-Universität Heidelberg, Germany

**Harman, Z.:**

***Practice class: Advanced Quantum Theory***

Heidelberg University

**Hinton, J.:**

***Introduction to non-thermal astrophysics***

***The very-high and ultra-high energy gamma-ray sky***

Online, The 2nd Thai-CTA workshop on Astroparticle Physics, High-Energy Astrophysics & Cosmology

**Hofmann, W.:**

***Introduction to CTA***

Online, The 2nd Thai-CTA workshop on Astroparticle Physics, High-Energy Astrophysics & Cosmology

**Hötzsch, L.:**

***Experimental Methods in Astroparticle Physics. (Tutorial)***

Ruprecht-Karls-Universität Heidelberg, Germany

**Keitel, C. H., Tamburini, M.:**

***Advanced Seminar: Theoretical Quantum Dynamics***

Heidelberg University

**Kreckel, H.:**

***Atomic and Molecular Physics at the Cryogenic Storage Ring.***

Vorlesung im Rahmen der „Ringvorlesung Atomphysik“

Universität Heidelberg (08.08.2021)

***Laboratory astrophysics: the formation of interstellar water and the onset of organic chemistry studied in the lab.***

Online Vorlesung ISH Summer School (27.07.2021)

***Übungen zur Experimentalphysik II (Elektrodynamik).***

Universität Heidelberg

**Lindner, M.:**

***Looking for the invisible Universe: Dark Matter and Neutrinos: (Theory and Experiments).***

***Teilchen- und Astroteilchen-Theorie.***

Ruprecht-Karls-Universität Heidelberg, Germany

**Marrodan, T., Rodejohann, W.:**

***Neutrino Physics: Theory and Experiment.***

Ruprecht-Karls-Universität Heidelberg, Germany

**Mooser, A./Sturm S.:**

***Übungen zur Experimentalphysik IV (Kern und Teilchenphysik).***

Universität Heidelberg

**Moshhammer, R.:**

***Bachelor Student Seminar (graduate level): "Key Experiments of Atomic Physics and Laser Spectroscopy" (with PD Dr.***

***Wolfgang Quint),***

Universität Heidelberg (online)

***Group Seminar: Dynamics and Structure of Atoms and Molecules,***

MPIK

**Oreshkina, N. S.:**

***Lecture: Advanced Quantum Theory***

Heidelberg University

**Pfeifer, T.:**

***Master Student Seminar (graduate-level): "Your Passion for (AMO) Physics: What are You Curious About?",***

Universität Heidelberg, (online)

***Journal Club: "Quantum Dynamics and Control" (with Dr. Anne Harth),***

MPIK

***Group Seminar: Dynamics and Structure of Atoms and Molecules (with PD Dr. Robert Moshhammer),***

MPIK

**Reville, B.:**

***Lecture course – Theoretical Astrophysics II***

***Seminar Series – Teekolloquium***

University of Heidelberg

**Scholer, O.:**

***Übungsgruppe zu Neutrino Physics***

Ruprecht-Karls-Universität Heidelberg, Germany (Online)

**Schwenk, A.:**

***Effective field theory and many-body theory.***

TU Darmstadt

**Trautner, A.:**

***Introduction to the Standard Model.***

Lake Baikal Summer School on Physics of Elementary Particles and Astrophysics, Russia (Online)

**Tuffs, R.:**

***Coordinator, Heidelberg Joint Astronomical Colloquium***

Heidelberg University:

**Volmer, N.:**

***Standard Model of Particle Physics (Tutorial)***

Ruprecht-Karls-Universität Heidelberg, Germany

## Winter Semester 2021/2022

**Blaum K., Kreckel. H.:**

*Oberseminar: Physik mit gespeicherten und gekühlten Ionen.*  
Universität Heidelberg (Online)

**Blaum, K., Mooser, A.:**

*Moderne Methoden der Massenspektrometrie.*  
Universität Heidelberg

**Buck, C.:**

*Übungsgruppe zur Experimentalphysik I.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Cattaneo, L.:**

*Tutor: Experimentalphysik II (PEP2) – Lecturer: Prof. Selim,*  
Universität Heidelberg

**Crespo López-Urrutia, J. R.:**

*Schlüsselexperimente der Quantenphysik, mandatory bachelor seminar (with Dr. Christian Ott) (2 SWS, 3 CP),*  
Universität Heidelberg

**Di Piazza, A.:**

*Practice class: Exercises on Quantum Field Theory I*  
Heidelberg University

**Dorn, A.:**

*Tutor: Exercises Advanced Atomic, Molecular and Optical Physics (AAMOP)*  
Universität Heidelberg

**Evers, J.:**

*Practice class: Tutorial on Advanced Atomic, Molecular and Optical Physics*  
Heidelberg University

**Goertz, F.:**

*Student lectures: Particle physics beyond the standard model.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Harman, Z.**

*Practice class: Übungen zur Experimentalphysik III*  
Heidelberg University

**Heiße F.:**

*Übungen zur Experimentalphysik I (Mechanik und Thermodynamik).*  
Universität Heidelberg

**Herbermann, T.:**

*Bachelorseminar zu Quantenmechanik.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Keitel, C. H., Tamburini, M.:**

*Advanced seminar: Theoretical Quantum Dynamics*  
Heidelberg University

**Khan, A.:**

*Experimentalphysik II (Electromagnetism, Optics, relativity).*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Klett, S.:**

*Übungsgruppe zur Theoretischen Physik 3.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Kreckel, H. and Semenov D. (MPIA):**

*Molecular Astrophysics.*  
Universität Heidelberg

**Lindner, M., Rodejohann, W.:**

*The Standard Model II.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Lindner, M.:**

*Teilchen- und Astroteilchen-Theorie.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Marrodán Undagoitia, T.:**

*Tutorials for Experimentalphysik I.*

Ruprecht-Karls-Universität Heidelberg, Germany

**Moshhammer, R.:**

*Übungen zur Vorlesung (Recitation/Tutorials): Advanced Atomic, Molecular and Optical Physics,*

Universität Heidelberg

*Group Seminar: Dynamics and Structure of Atoms and Molecules,*

MPIK

**Oreshkina, N. S.:**

*Practice class: Übungen zur Experimentalphysik III*

Heidelberg University

**Ott, C.:**

*Tutorials to Lecture "Advanced Atomic Molecular and Optical Physics"*

2 Semesterwochenstunden

Universität Heidelberg

*5x 3hr Lecture Series "Ultrafast Light-Matter Interaction: Measuring and controlling quantum dynamics with attosecond and femtosecond flashes of light"*

47th HGSFP Graduate Days

Universität Heidelberg

**Pfeifer, T.:**

*Master Student Seminar (graduate-level): "Your Passion for Physics: What are You Curious About?",*

Universität Heidelberg

*Journal Club: "Quantum Dynamics and Control" (with Dr. Anne Harth),*

MPIK

*Group Seminar: Dynamics and Structure of Atoms and Molecules (with PD Dr. Robert Moshhammer),*

MPIK

**Reville, B.:**

*Seminar Series – Teekolloquium*

University of Heidelberg

*2 Guest lectures – High Energy Astrophysics*

North-West University, Potchefstroom, South Africa

**Rodejohann, W.:**

*Neutrino Mass Phenomenology.*

KIT Karlsruhe, KSETA School

**Scholer, O.:**

*Übungsgruppe zur Theoretischen Physik I*

Ruprecht-Karls-Universität Heidelberg, Germany

**Schwenk, A.:**

*Theoretical Physics II (Quantum Mechanics).*

TU Darmstadt

**Tuffs, R.:**

*Coordinator, Heidelberg Joint Astronomical Colloquium*

Heidelberg University



## Summer Semester 2022

Aharonian, F.:

*Introduction to gamma-ray astronomy  
Galactic and Extragalactic Cosmic Ray Accelerators*  
Varenna, Italy, International School of Physics "Enrico Fermi"

Blaum K., Kreckel. H.:

*Oberseminar: Physik mit gespeicherten und gekühlten Ionen.*  
Universität Heidelberg

Buck, C.:

*Übungsgruppe zur Experimentalphysik II.*  
Ruprecht-Karls-Universität Heidelberg, Germany

Cattaneo, L.:

*Tutor: Experimentalphysik II (PEP2) – Lecturer: Prof. Schoening,*  
Universität Heidelberg  
*Master Student Seminar (graduate-level): "Soft matter meets ultrafast spectroscopy"*  
University of Pavia (online)

Crespo López-Urrutia, J. R.:

*Experimental Methods in Atomic, Molecular and Optical Physics, lecture (3 SWS, 4 CP) with exercises.*  
Universität Heidelberg

Di Piazza, A.:

*Lecture: Quantum Electrodynamics*  
Heidelberg University

Dorn, A.:

*Tutor: Exercises for Experimental Physics 2*  
Universität Heidelberg

Evers, J.:

*Lecture: Theoretical Quantum Optics*  
Heidelberg University

Gamer, L.:

*Hands On Courses, CryoCourse 2022: Leak detection.*  
Universität Heidelberg, (19.09.2022 + 20.09.2022)

Goertz, F.:

*Going Beyond the Standard Model of Particle Physics.  
Student lectures: Particle physics beyond the standard model.*  
Ruprecht-Karls-Universität Heidelberg, Germany

Guida, M:

*Experimental Methods in Astroparticle Physics (Tutorial).*  
Ruprecht-Karls-Universität Heidelberg, Germany

Haerer, L.:

*"Elementarteilchen und kosmische Strahlung"*  
*"Relativitätstheorie"*  
Astronomisches Sommerlager July 30 – August 13, 2022  
*"Schwarze Löcher - In Theorie und Beobachtung"*  
Dr. Hans-Riegel Akademie, Sep 24, 2022

Hamann, R:

*Statistische Methoden der Experimentalphysik. (Advanced lab course)*  
Ruprecht-Karls-Universität Heidelberg, Germany

Harman, Z.:

*Practice class: Quantenmechanik-Tutorium*  
Heidelberg University

Hinton, J.:

*High-Energy Gamma Rays*  
Olomouc, Czech Republic, 11th IDPASC school

**Hofmann, W.:**

***The Cherenkov Telescope Array and its science***

Paris Saclay, France, ISAPP school on "Astrophysical sources of cosmic rays"

***From the current IACT to CTA***

Online, Sexten School on "Hands-on the Extreme Universe with High Energy Gamma-ray data"

**Hötzsch, L:**

***Gamma Spektrometrie. (Advanced lab course)***

Ruprecht-Karls-Universität Heidelberg, Germany

**Keitel, C. H., Tamburini, M.:**

***Advanced seminar: Theoretical Quantum Dynamics***

Heidelberg University

**Khan, A.:**

***Experimentalphysik I (Classical Mechanics, Fluids mechanics, waves, and oscillations).***

Ruprecht-Karls-Universität Heidelberg, Germany

**Kreckel, H.:**

***Übungen zur Experimentalphysik II (Elektrodynamik).***

Universität Heidelberg

**Lindner, M.:**

***Looking for the Invisible: Dark Matter and Neutrinos.***

***Teilchen- und Astroteilchen-Theorie.***

Ruprecht-Karls-Universität Heidelberg, Germany

**Marrodán Undagoitia, T.:**

***Experimental Methods in Astroparticle Physics.***

Ruprecht-Karls-Universität Heidelberg, Germany

**Moshhammer, R.:**

***Übungen zur Experimentalphysik II: Elektrodynamik, Optik, Relativität (Recitation/Tutorials on Experimental Physics II: Electrodynamics, Optics, Relativity).***

Universität Heidelberg

***Group Seminar: Dynamics and Structure of Atoms and Molecules,***

MPIK

**Pastor Gutierrez, A.:**

***Advanced Quantum Field Theory (Tutorial).***

Ruprecht-Karls-Universität Heidelberg, Germany

**Pfeifer, T.:**

***Master Student Seminar (graduate-level): "Your Passion for Physics: What are You Curious About?"***

Universität Heidelberg

***Journal Club on Quantum Dynamics and Control (with Dr. David Chicharro Vacas).***

MPIK

***Group Seminar: Dynamics and Structure of Atoms and Molecules (with PD Dr. Robert Moshhammer).***

MPIK

**Reville, B.:**

***Lecture course – Theoretical Astrophysics II***

***Seminar Series – Teekolloquium***

University of Heidelberg

**Saake, P.:**

***Übungsgruppe Quantum Field Theory I.***

Ruprecht-Karls-Universität Heidelberg, Germany

**Schmelling, M.:**

***Statistical Methods in Data Analysis II***

TU Dortmund, Germany (Blockkurs 2022)

***Inverse problems and their solutions***

TU Dortmund, Germany, REAML'22, Resource-aware Machine Learning - 6th International Summer School (12.-16.09.2022)

**Sturm S.:**

***Übungen zur Experimentalphysik IV (Kern und Teilchenphysik).***

Universität Heidelberg

**Tamburini, M.:**

***Co-Lecture: Computational Physics (online)***

North-West University (South Africa), initiated by the Max Planck Society

**Trautner, A.:**

***Master Student Seminar: "Looking for the Invisible: Dark Matter and Neutrinos".***

Ruprecht-Karls-Universität Heidelberg, Germany

***Introduction to the Standard Model.***

6th Models of Modern Physics Summer School, Liptovská Teplička, Slovakia

**Tuffs, R.:**

***Coordinator, Heidelberg Joint Astronomical Colloquium***

Heidelberg University

## Winter Semester 2022/2023

**Blaum K., Kreckel. H.:**

*Oberseminar: Physik mit gespeicherten und gekühlten Ionen.*  
Universität Heidelberg

**Blaum, K./Mooser, A./Sturm, S.:**

*Moderne Methoden der Massenspektrometrie.*  
Universität Heidelberg

**Buck, C.:**

*Key experiments in neutrino physics.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Cattaneo, L.:**

*Bachelor-Pflichtseminar "Schlüsselexperimente der Quantenphysik" (together with José Crespo),*  
2 Semesterwochenstunden,  
Universität Heidelberg

**Conte, F.:**

*Particle and Astroparticle Physics (CTA + CRs in the Galactic Center)*  
Rome, Italy, La Sapienza University

**Crespo López-Urrutia, J. R.:**

*Schlüsselexperimente der Quantenphysik, mandatory bachelor seminar (2 SWS, 3 CP),*  
Universität Heidelberg

**Di Piazza, A.:**

*Lecture: Advanced Topics in QED*  
Heidelberg University

**Dorn, A.:**

*Tutor: Exercises Advanced Atomic, Molecular and Optical Physics (AAMOP)*  
Universität Heidelberg

**Evers, J.:**

*Advanced seminar: Tutorials on Advanced Atomic, Molecular and Optical Physics*  
Heidelberg University

**Goertz, F.:**

*Experimentalphysik I. (Tutorial)*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Harman, Z.:**

*Lecture: Quantum Electrodynamics: Theory and Key Experiments*  
*(together with Quint, W.)*  
Heidelberg University

**Hinton, J.:**

*Gamma-ray Astronomy*  
Obertrubach-Bärnfels, Germany, ECAP Astroparticle school 2022

**Keitel, C. H., Tamburini, M.:**

*Advanced seminar: Theoretical Quantum Dynamics*  
Heidelberg University

**Klett, S.:**

*Übungsgruppe zu The Standard Model II.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Kreckel, H. and Semenov D. (MPIA):**

*Molecular Astrophysics.*  
Universität Heidelberg

**Lindner, M., Rodejohann, W.:**

*The Standard Model II.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Lindner, M.:**

*Teilchen- und Astroteilchen-Theorie.*  
Ruprecht-Karls-Universität Heidelberg, Germany

**Magunia, A.:**

**2x Tutorials to Lecture “Experimentalphysik III (PEP3)”**

2x 2 Semesterwochenstunden

Universität Heidelberg

**Mooser, A.:**

**Übungen zur Experimentalphysik III**

Universität Heidelberg

**Moshhammer, R.:**

**Übungen zur Vorlesung (Recitation/Tutorials): Advanced Atomic, Molecular and Optical Physics,**

Universität Heidelberg

**Group Seminar: Dynamics and Structure of Atoms and Molecules,**

MPIK

**Ott, C.:**

**2x 1hr Lecture on “The ultrafast response of nonlinear light-matter interaction: learning from spectral line shapes”,  
International School on Ultrafast X-ray Science 2022 (10.10. – 14.10.2022)**

Paris-Saclay Campus, France

**Tutorials to Lecture “Advanced Atomic Molecular and Optical Physics”**

2 Semesterwochenstunden

Universität Heidelberg

**Pastor Gutierrez, A.:**

**Quantum Field Theory (Tutorial).**

Ruprecht-Karls-Universität Heidelberg, Germany

**Pfeifer, T.:**

**Übungen zur Experimentalphysik III: Quantenmechanik und Atomphysik (Recitation/Tutorials on Experimental Physics III:  
Quantum mechanics and atomic physics),**

Universität Heidelberg

**Journal Club on Quantum Dynamics and Control (with Dr. David Chicharro Vacas)**

**Group Seminar: Dynamics and Structure of Atoms and Molecules (with PD Dr. Robert Moshhammer),**

MPIK

**Reville, B.:**

**Seminar Series – Teekolloquium**

University of Heidelberg

**2 Guest lectures – High Energy Astrophysics**

North-West University, Potchefstroom, South Africa

**Schwenk, A.:**

**Nuclear Theory.**

TU Darmstadt

**Sturm, S.:**

**Übungen zur Experimentalphysik IV (Kern und Teilchenphysik).**

Universität Heidelberg

**Tuffs, R.:**

**Coordinator, Heidelberg Joint Astronomical Colloquium**

Heidelberg University