

Invited Talks 2017

At Conferences and Symposia

Assergi, Italy, LNGS, Recent Developments in Neutrino Physics and Astrophysics (04.-07.09.2017)

Smirnov, A. Y.:

Concluding Remarks.

Aussois, France, IWP-RIXS-2017, International Workshop on Photoionization & Resonant Inelastic X-ray Scattering (26.-31.03.2017)

Pfeifer, T.:

Observing atoms and molecules change their shape in short and strong laser fields.

Bad Honnef Physikzentrum, Germany, 4th KAT strategy meeting (07.-08.12.2017)

Maneschg, W.:

Low energy neutrino physics: Review of solar neutrinos & Outlook on Coherent Neutrino Nucleus Scattering.

Bad Honnef, Germany (19.09.2017)

Crespo López-Urrutia, J. R.:

Thorium in high charge states: new opportunities for nuclear clocks?

Bad Honnef, Germany, KET Jahresversammlung (10.-11.11.2017)

Schmelling, M.:

Physik Highlights der LHC Experimente.

Bad Honnef, Germany, Physikzentrum, KHuK Annual Meeting 2017 (01.12.2017)

Blaum, K.:

Bericht zu ISOLDE.

Beijing, China, 40th Anniversary of cooperation between IMP and GSI (05.09.2017)

Blaum, K.:

Precision Measurements of Fundamental Properties of Atoms and Nuclei.

Belfast, United Kingdom, 44th EPS Conference on Plasma Physics (26.-30.06.2017)

Di Piazza, A.:

Opportunities in high-field classical and quantum electrodynamics using high-power lasers. (plenary talk)

Bergen, Norway, 12th International Workshop on High-pT Physics for the RHIC and LHC Era (02.-05.10.2017)

Schmelling, M.:

J/psi production in LHCb.

Forward Physics with LHCb.

Berlin, Germany, 2nd International Conference on Quantum Physics and Quantum Technology (25.-26.09.2017)

Pálffy-BuB, A.:

X-ray quantum optics.

Berlin, Germany, MPG Meeting of CPTS Section (26.10.2019)

Sturm, S.:

Precision measurements of the magnetic moment of highly charged ions and determination of fundamental constants.

Bern, Switzerland, ISSI workshop "The Physics of the Very Local Interstellar Medium and its Interaction with the Heliosphere" (08.-11.05.2017)

Giacinti, G.:

Cosmic-Ray Anisotropy as a Probe of local Interstellar Turbulence.

Blois, France, 29th Rencontres de Blois - Particle Physics and Cosmology (28.05.-02.06.2017)

Lindner, M.:

Conference Summary.

Rodejohann, W.:

Lepton Number Violation.

Bonn, Deutschland, Labor-Astrophysik Meeting, MPI für Radioastronomie (30.11.2017)

Kreckel, H.:

Laboratory studies of interstellar gas phase water formation.

Bonn, Int. Workshop on Beam Cooling, COOL17 (18.-22.09.2017)

Wilhelm, P.:

Electron cooling of bunched ion beams and recent results at the Heidelberg cryogenic storage ring (CSR).

Bordeaux, France, NUCAR collaboration meeting (06.-08.03.2017)

Grieser, M.:

A new storage ring for ISOLDE.

- Brazil, ICTP-SAIFR, I South American workshop on Dark Matter (06.2017)
Queiroz, F.:
A Step Towards the Nature of Dark Matter with Direct Detection Experiments.
- Brisbane, Australia, 4th ISWAMP (Intense Field, Short Wavelength Atomic and Molecular Processes) (22.-24.07.2017)
Ott, C.:
Bound-state electron dynamics in weak and strong fields.
- Brussels, Belgium, Solvay workshop on “Beyond the Standard model with Neutrinos and Nuclear Physics” (29.11.-01.12.2017)
Lindner, M.:
Neutrinoless double beta decay and new physics.
- Budapest, Hungary, 14th ICOMP (International Conference on Multiphoton Processes) (24.-27.09.2017)
Camus, N.:
Experimental evidence for Wigner's tunneling time.
Ott, C.:
Time-resolved XUV absorption spectroscopy of correlated electron dynamics in weak and strong fields.
- Busan, Korea, 35th International Cosmic Ray Conference ICRC 2017 (12.-20.07.2017)
Zanin, R.:
Gamma-ray emission from Pulsars and their environment.
- Cairns, Australia, Int. Conf. on the Physics of Photonic, Electronic and Atomic Collisions (ICPEAC XXX) (26.07.-01.08.2017)
Pfeifer, T.:
Tutorial: Shaping atoms and molecules with strong laser fields.
Blättermann, A.:
Observing the ultrafast buildup of a Fano resonance.
Dorn, A.:
Electron Impact Ionization of Molecules and Clusters.
Novotný, O.:
Internally cold ions in the Cryogenic Storage Ring.
- Cambridge, MA, USA, Table-Top Experiments with Skyscraper Reach, Workshop at MIT (09.-11.08.2017)
Blaum, K.:
Precision Tests of Fundamental Interactions and their Symmetries with cooled and stored exotic ions.
- Cancun, Mexico, Femtochemistry Conference (FEMTO 13) (13.-17.08.2017)
Pfeifer, T.:
Atoms and Molecules Changing Shape in Strong Laser Fields — Observed by Attosecond XUV Spectroscopy and Femtosecond X-Ray Imaging.
- Cargèse, Corsica, France, Precision physics, quantum electrodynamics and fundamental interactions (29.04.-05.05.2017)
Harman, Z.:
Fundamental studies with highly charged ions.
- Cargèse, Italy, Precision Physics, Quantum Electrodynamics and Fundamental Interactions 2017 (01.05.2017)
Sturm, S.:
Testing strong field QED via the magnetic moment of highly charged ions.
- Catania, Italy, Conference on Neutrino and Nuclear Physics (CNNP2017) (21.-25.10.2017)
Blaum, K.:
Precision Nuclear Mass Measurements: Present and Future for Nuclear Structure, Astrophysics and Neutrino Physics Studies.
Lindner, M.:
The CONUS coherent Neutrino scattering Experiment.
Smirnov, A. Y.:
Theory of neutrino masses and mixing.
- Chişinău, Moldova, Humboldt Kolleg: an open workshop on “Multidisciplinarity in Modern Science for the Benefit of Society” (20.-22.09.2017)
Keitel, C. H.:
X-ray quantum control with highly charged ions and nuclei. (plenary talk)
- Darmstadt, Germany EMMI Physics Days at GSI (28.11.2017)
Köhler-Langes, F.:
A new experiment for high-precision measurements of light atomic masses - First results on the mass of the proton.
- Darmstadt, Germany, APPA R&D Collaboration Meeting at GSI Darmstadt (12.01.2017)
Novotný, O.:
First experiments with the cryogenic electrostatic storage ring CSR.

- Darmstadt, Germany, ILIMA Open Meeting 2017 (28.02.2017)
Gunst, J.:
Nuclear excitation by electron capture in laser-generated plasmas.
- Darmstadt, Germany, NUSTAR annual meeting at GSI (02.03.2017)
Schwenk, A.:
Medium-mass nuclei from nuclear forces. (plenary talk)
- Dresden, Germany, Atomic Physics 2017 (26.11.-01.12.2017)
Moshhammer, R.:
From Tunneling Times to Atomic Spectroscopy: Experiments with Reaction Microscopes.
- Dresden, Germany, DPG spring meeting (19.-24.03.2017)
Pfeifer, T.:
Attosecond control of excited electrons and nuclei in gas- and condensed-phase systems.
- Dresden, Germany, ELI German Scientific Community Workshop (29.-30.06.2017)
Ott, C.:
Gas phase XUV absorption spectroscopy in weak and strong fields.
- Dresden, Germany, Quantum Memory from Quantum Dynamics (15.-17.06.2017)
Evers, J.:
Nuclear quantum dynamics with x-rays.
Hatsagortsyan, K. Z.:
Tunneling time delay in strong field ionization.
Keitel, C. H.:
Foundations of Extreme Laser-Matter Interaction.
- Dubai, United Arab Emirates, FTAPS Frontiers in theoretical and applied physics, (22.-25.02.2017)
Moshhammer, R.:
Atomic and Molecular Fragmentation in Intense XUV and IR Laser Fields.
- Durham, UK, 49th EGAS Conference (17.-21.07.2017)
Wolf, A.:
Fast Ion Beams Stored in Cryogenic Low-Density Environment: Collisions and Internal Excitations.
- Easton, USA, Gordon Research Conference: Frontier Science with Forefront Synchrotrons and XFEL Sources, Stonehill College, (30.07.-04.08.2017)
Schnorr, K.:
Imaging Strong-Field Induced Dynamics in C60 via X-Ray Scattering.
- Edinburgh, Scotland, Workshop: Fullerenes in Space 2017 (29.04.2017)
Kreckel, H.:
Toward gas phase spectroscopy of fullerenes and complex organic ions in a cryogenic ion trap.
- Erice, Italy, International School of Nuclear Physics 39th Course (16.-24.09.2017)
Buck, C.:
Short baseline neutrino oscillation experiments at nuclear reactors.
- Florence, Italy, GGI Workshop "Collider and Cosmos" (28.08.-06.10.2017)
Arcadi, G.:
WIMP Dark Matter and Portals.
- Fort Lauderdale, USA, 49th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics APS Meeting (28.05.-01.06.2018)
Crespo López-Urrutia, J. R.:
Fundamental studies using VUV and EUV frequency metrology with highly charged ions.
- Freiburg, Germany, FRIAS Conference: Beyond molecular movies: Bringing time-domain spectroscopy to diffraction imaging (13.-15.09.2017)
Pfeifer, T.:
Understanding Atoms and Molecules in Strong Laser Fields using Attosecond XUV Spectroscopy and Femtosecond X-Ray Imaging.
- Garching, Germany, ESO Conference "Reaching New Heights in Astronomy" (28.-30.08.2017)
Hofmann, W.:
Astronomy at the highest photon energies.
- Geneva, CERN, Switzerland, Workshop "Neutrinos: the quest for a new physics scale" (27.-31.03.2017)
Smirnov, A. Y.:
Flavor symmetries: Introduction.

- Geneva, Switzerland, 17th International Conference on Ion Sources (15.-20.10.2017)
Crespo López-Urrutia, J. R.:
Design and test of the CANREB-EBIS.
- Guadalajara, Jalisco, Mexico; 4th "Cosmic Ray Anisotropy Workshop" (CRA 2017) (10.-13.10.2017)
Giacinti, G.:
TeV-PeV Cosmic-Ray Anisotropy as a New Probe of the Interstellar Turbulence.
- Guangzhou, China, XXVIII International Symposium on Lepton Photon Interactions at High Energies (07.-12.08.2017)
Schwingerheuer, B.:
Neutrinoless double beta decay and absolute neutrino mass measurements.
- Halong, Vietnam, Int. Symposium on Physics of Unstable Nuclei 2017 (ISPUN17) (25.-30.09.2017)
Blaum, K.:
Precision Nuclear Masses and their Importance for Nuclear Structure, Astrophysics and Fundamental Studies.
- Hamburg, DESY, Physics seminar (25.-26.10.2017)
Marrodán Undagoitia, T.:
First results from the XENON1T dark matter experiment.
- Hamburg, Germany, DESY Theory Workshop 2017 (26.-29.09.2017)
Platscher, M.:
Gravitational Wave Oscillations in Bigravity.
- Hamburg, Germany, European XFEL / DESY Photon Science Users' Meeting (25.-27.01.2017)
Ott, C.:
Absorption Spectroscopy and Control of Correlated Electron Dynamics in Small Quantum Systems.
- Hamburg, Germany, Timing Experiments at PETRA IV (27.-29.03.2017)
Evers, J.:
Time-resolved nuclear quantum optics.
- Heidelberg, Germany, Higgs Couplings 2017 (06.-10.11.2017)
Helmboldt, A.:
Prospects for three-body Higgs decays into extra light scalars.
- Heidelberg, Germany, HighRR Workshop: Vistas on Detector Physics (11.12.2017)
Hasterok, C.:
Gas Purity Analytic Methods in XENON1T.
- Heidelberg, Germany, Joint KAT-KET-HHUK Workshop on 'The Future of Neutrino Physics' (23.-24.02.2017)
Maneschg, W.:
Coherent Elastic Neutrino Nucleus Scattering.
- Heidelberg, Germany, nuClock Consortium Meeting, MPIK, Heidelberg, September 2017 (18.-19.09.2017)
Crespo López-Urrutia, J. R.:
Thorium in high charge states: new opportunities for nuclear clocks?
Eliseev, S.:
What could Penning-Trap Mass Spectrometry do for nuClock?
- Heidelberg, Germany, Workshop on 'Flavour and Dark Matter' (26.09.2017)
Goertz, F.:
Axiflavor Theory.
Queiroz, F.:
Dark Matter in Two Higgs Doublet Models.
- Hirschegg, Austria, Neutron star mergers: From gravitational waves to nucleosynthesis (15.-21.01.2017)
Blaum, K.:
Precision Mass Measurements for Nuclear Astrophysics and Neutrino Physics Studies.
- Ilmenau, Germany, 21. Deutsche Physikerinnentagung (28.-01.10.2017)
Pálffy-Buß, A.:
Laser-matter interaction in the x-ray regime. (plenary talk)
- Irvine, CA, USA, WIN 2017 (19.-23.06.2017)
Platscher, M.:
Connecting lepton flavor violation and the muon anomalous magnetic moment.
Xu, X.:
Distinguishing between Dirac and Majorana neutrinos in the presence of general interactions.
- Jerusalem, Israel, High Energy Astrophysics Workshop (28.02.2017)
Aharonian, F.:
Scientific objectives of high energy gamma-ray Astronomy.

- Kazan, Russia, The 26th Annual International Laser Physics Workshop (LPHYS'17) (17.-21.07.2017)
Bauke, H.:
Electrons in Strong Electromagnetic Fields: Spin Effects and Radiation Reaction.
Cavaletto, S. M.:
Reconstruction and Control of Strong-Field-Excited Quantum Dynamics.
Hatsagortsyan, K. Z.:
Under-the-barrier recollisions in strong field ionization.
Limits of Strong Field Rescattering in the Relativistic Regime.
Keitel, C. H.:
Relativistic quantum dynamics and quantum electrodynamics with super strong laser pulses.
X-ray quantum control with highly charged ions and nuclei.
Tamburini, M.:
Laser-Pulse-Shape Control of Seeded QED Cascades.
- Kreuth, Germany, Ringberg Workshop on Science with FELs (05.02.2017)
Schnorr, K.:
Imaging Strong-Field Induced Dynamics in C60 via X-Ray Scattering.
- Kreuth, Schloss Ringberg, Germany, Retreat of the Laser Spectroscopy Division of the Max Planck Institute of Quantum Optics (28.08.-01.09.2017)
Blaum, K.:
Measuring the World - Precision Measurements of Fundamental Properties of Atoms and Nuclei.
- La Thuile, Italy, 52nd Rencontres de Moriond: "Electroweak Interactions and Unified Theories" (18.-25.03.2017)
Viana, A.:
Indirect Searches for Dark Matter signals with H.E.S.S.
- La Thuile, Italy, 52nd Rencontres de Moriond: "Very High Energy Phenomena in the Universe" (18.-25.03.2017)
Marandon, V.:
An overview of the TeV Galactic sources.
Marrodán Undagoitia, T.:
Dark matter search with the XENON1T experiment.
- Lausanne, Switzerland, Summer School on Recent Trends in Light-Matter Interaction (04.-08.09.2017)
Pálffy-BuB, A.:
An Introduction to X-ray Quantum Optics.
- Lisboa, Portugal, 2nd Conference on Extremely High Intensity Laser Physics (ExHILP 2017) (05.-08.09.2017)
Di Piazza, A.:
Radiation reaction in classical and quantum electrodynamics. (plenary talk)
Meuren, S.:
Recollision processes and other photon-induced strong-field QED phenomena in a plane-wave laser field.
Tamburini, M.:
Laser-pulse-shape control of seeded QED cascades.
- London, United Kingdom, Workshop on Quantum Optics to Quantum Technology (QOTOQT) in honour of Professor Sir Peter Knight's 70th birthday (11.-13.07.2017)
Keitel, C. H.:
High-energy quantum optics with extremely intense laser pulses.
- Lyon, France, 7th International Workshop on Electrostatic Storage Devices (19.-22.06.2017)
George, S.:
Internal dynamics of stored cluster ions.
Meyer, C.:
Laser probing and population distributions of stored ions.
Wilhelm, P.:
The electron merged beam at CSR.
- Lyon, France, ESD Workshop (14.-16.06.2017)
Moshhammer, R.:
The CSR Reaction-Microscope.
- Madrid, Spain, 20th International Planck Conference (19.-23.06.2017)
Arcadi, G.:
Probing the WIMP paradigm at future experiments.
- Madrid, Spain, ESA/ESO SciOps workshop 2017 "Working Together in Support of Science" (17.-28.10.2017)
Hinton, J.A.:
CTA Distributed Operations.

Magnetic Island, Townsville, Australia, XIX International Workshop on Low-Energy Positron and Positronium Physics and XX International Symposium on Electron-Molecule Collisions and Swarms, POSMOL2017 (21.-24.07.2017)

Wolf, A.:

Low-energy electron collisions of molecular ions: New opportunities in a cryogenic storage ring.

Mainz, Germany, DPG Spring Meeting (06.-10.03.2017)

Crespo López-Urrutia, J. R.:

Interrogating strongly bound electrons about fundamental physics.

Ott, C.:

Electron Correlation Dynamics in Weak and Strong Fields.

Blättermann, A.:

Amplitude and phase control of an atom's optical response.

Blaum, K.:

Precision Measurements of Fundamental Properties of Atomic Particles in Penning traps. (plenary talk)

Mainz, Germany, Supernova Neutrino Observations Workshop (01.10.2017)

Brdar, V.:

Dark Gamma Ray Bursts.

Marburg, Germany, REHE 2017 (03.09.2017)

Schwenk, A.:

Ab initio calculations of the nuclear chart.

Minsk, Belarus, XV. International Conference on Quantum Optics and Quantum Information (20.-23.11.2017)

Skoromnik, O. D.:

Quantum effects in strong field QED.

Moscow, Russia, 18th Lomonosov Conference on Elementary Particle Physics (24.-30.08.2017)

Knöpfle, K.T.:

Status and prospects of the search for neutrinoless double-beta decay of ⁷⁶Ge.

Mumbai, India, 13th International Workshop on Applied Antineutrino Physics (IWAAP 2017/AAP 2017) (30.11.-01.12.2017)

Rink, T.:

The CONUS experiment - Measuring COherent elastic Neutrino nUcleus Scattering at reactor Site.

Roca, C.:

Search for eV Sterile Neutrinos: The Stereo Experiment.

Mumbai, India, 25th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 17), Tata Institute of Fundamental Research (TIFR) (11.-15.12.2017)

Lindner, M.:

Neutrino mass models.

München, Germany, Direct Dark Matter Detection: Experiment meets Theory Workshop (03.2017)

Queiroz, F.:

Probing Two Higgs Doublet Models with Higgs Precision Measurements.

Münster, Germany, 81st DPG Spring Meeting (27.-31.03.2017)

Almazan, H.:

Consistencies of the neutron detection efficiency in the Double Chooz reactor neutrino detectors.

Cichon, D.:

Internal backgrounds in the XENON100 experiment.

Helmboldt, A.:

Prospects for three-body Higgs decays into extra light scalars.

Lindner, M.:

Direct Dark Matter Detection. (Plenarvortrag)

Platscher, M.:

Lepton Flavour Violation and the Muon Anomalous Magnetic Moment.

Rink, T.:

Coherent elastic neutrino nucleus scattering as a window to new physics.

From CP Phases to Yukawa Textures - Maximal Yukawa Hierarchies in Minimal Seesaw Models.

Roca, C.:

Calibration and energy scale using radioactive sources in the Stereo Experiment.

Xu, X.:

Coherent Neutrino-Nucleus Scattering and new Neutrino Interactions.

Eliseev, S.:

Penning-Trap Mass Spectrometry & Neutrino Physics.

Schwingerheuer, B.:

Search for Lepton Number Violation with Neutrinoless Double Beta Decay. (Hauptvortrag Teilchenphysik)

- Obergurgl, Austria, SFB 1225 ISOQUANT Workshop (19.-24.02.2017)
Crespo López-Urrutia, J. R.:
Precision physics in strong field QED and limits on the time variation of fundamental constants.
- Odense, Denmark, DaNuCo on Dark Matter, neutrinos and their connections in astroparticle physics (28.08.-01.09.2017)
Alanne, T.:
Neutrino mass generation and leptogenesis via pGB Higgs portal.
Queiroz, F.:
A Step Toward the Nature of Dark Matter with Direct Detection Experiments.
- Orsay, France, Congrès général de la Société Française de Physique, Colloque „Pièges à Ions (04.07.2017)
Wolf, A.:
Collisions with cooled molecules: a 300-keV cryogenic electrostatic ion storage ring.
- Oxford, UK, Workshop on Plasma Astrophysics „From the Laboratory to the Non-Thermal Universe (03.-05.07.2017)
Hinton, J.A.:
CTA and the Non-thermal Universe.
- Palm Cove, Australia, (e,2e), Double Photo-Ionization & Related Topics Polarization and Correlation in Electronics & Atomic Collisions (02.-04.08.2017)
Blättermann, A.:
Watching the emergence of a Fano resonance in doubly-excited helium.
Pfeifer, T.:
Watching and steering few- to many-electron bound-state dynamics.
Ren, X.:
Observation of intermolecular Coulombic decay (ICD) in hydrated biomolecule clusters induced by electron-impact.
- Paris, France, Higgs Hunting (07.2017)
Queiroz, F.:
Probing Two Higgs Doublet Models with Higgs Precision Measurements.
- Podlesice, Poland, Matter to The Deepest - Recent Developments in Physics Of Fundamental Interactions (03.-08.09.2017)
Harman, Z.:
Precision theory of the bound-electron g factor.
- Prague, Czech Republic, 11th Meeting on Matrix Elements for Double Beta Decay Experiments (MEDEX 2017) (29.05.-02.06.2017)
Rodejohann, W.:
Dirac vs. Majorana fermions in neutrino-electron scattering and in Dark Matter direct detection.
Eliseev, S.:
How could Penning-Trap Mass Spectrometry be useful to Neutrino Physics?
- Prague, Czech Republic, 4th XLIC General Meeting (13.-17.03.2017)
Blättermann, A.:
Observing the ultrafast build-up of a Fano resonance in the time domain.
- Prague, Czech Republic, European Week of Astronomy and Space Science EWASS (26.-30.06.2017)
Casanova, S.:
Molecular Clouds with CTA.
- Prague, Czech Republic, SPIE Optics + Optoelectronics 2017 (24.-27.04.2017)
Bauke, H.:
Electrons in strong electromagnetic fields: spin effects and radiation reaction.
Keitel, C. H.:
High-energy quantum processes in extremely intense laser pulses (keynote presentation).
- Prague, Czech Republic, XXXVII International Symposium on Physics in Collision (04.-08.09.2017)
Schwingenheuer, B.:
Search for Lepton Number Violation with Neutrinoless Double Beta Decay.
- Pyatigorsk, Russia, APPEC, The Mount Elbrus Conference from Deep Underground up to the Sky (11.-15.09.2017)
Schwingenheuer, B.:
Latest GERDA results on Lepton Number Violation: search of neutrinoless double beta decay of ⁷⁶Ge.
- Rehovot, Israel, From Ultrafast to Ultraslow Dynamics in Molecules and Clusters, Weizmann Institute (23.-25.01.2017)
Pfeifer, T.:
Attosecond XUV spectroscopy and femtosecond x-ray imaging of Atomic and Molecular Dynamics in Strong Laser Fields.
George, S.:
Dynamical processes of anionic clusters.
- Rehovot, Israel, SRitp Workshop: BSM in direct, indirect and tabletop experiments, Weizmann Institute (05.-16.11.2017)
Crespo López-Urrutia, J. R.:
Spectroscopy of highly charged ions for probing fundamental interactions.

- Riezlern, Austria, 38th Extreme Atomic Systems (EAS) Meeting (30.-02.02.2017)
Oreshkina, N. S.:
Variation of the fundamental constants in simple ions.
Yerokhin, V. A.:
g factor of the bound-electron in H-like and Li-like ions.
- Rome, Italy, 3rd International Conference on High Energy Physics (11.-12.12.2017)
Pálffy-BuB, A.:
Laser-nucleus reactions at the upcoming extreme light infrastructure.
- Sacramento, USA, DAMOP (07.06.2017)
Novotný, O.:
Astrochemistry in TSR & CSR storage rings.
- Saint Petersburg, Russia, The International Conference on the Applications of the Mössbauer Effect (ICAME 2017) (03.-08.09.2017)
Heeg, K. P.:
X-ray quantum optics with Mössbauer nuclei.
- Santa Fe, NM, USA, "Cosmic rays, pulsars & dark matter" (01.-03.03.2017)
Kirk, J.G.:
Particle acceleration at pulsar wind termination shocks.
- Sarteano, Italy, 1st JPP Frontiers in Plasma Physics Conference (24.-26.05.2017)
Di Piazza, A.:
Theoretical challenges in strong-field QED.
- Seattle, USA, INT Program INT-17-2a Opening Workshop (13.-14.06.2017)
Rodejohann, W.:
Neutrinoless double Beta Decay and Particle Physics: Overview.
- Shanghai, China, International Workshop on Neutrinoless Double Beta Decay Physics (20.-24.06.2017)
Rodejohann, W.:
Neutrinoless double Beta Decay and Particle Physics: Overview.
- Singapore, From a single particle to many-body quantum physics and its application workshop (15.02.2017)
Crespo López-Urrutia, J. R.:
Highly charged ions as sensitive probes for the time variation of the fine-structure constant α .
- Snowbird, Utah, USA, 47th Winter Colloquium on the Physics of Quantum Electronics (PQE-2017) (08.-13.01.2017)
Evers, J.:
Inducing and detecting collective population inversions of Mössbauer nuclei.
Keitel, C. H.:
High-energy quantum processes in extremely intense laser pulses. (plenary talk)
Kong, X.:
Using nuclear transitions to control and store x-ray photons.
- Strasbourg, France, International Workshop on Future Linear Colliders (LCWS2017) (23.-27.10.2017)
Helmboldt, A.:
Quark flavour-violating Higgs decays at the ILC.
- Sudbury, Canada, XVth International Conference on Topics in Astroparticle and Underground Physics, TAUP2017, Laurentian University (24.-28.07.2017)
Lindner, M.:
Results from XENON1T.
Rodejohann, W.:
Neutrino Theory Overview.
Schopmann, S.:
Search for eV Sterile Neutrinos – The Stereo Experiment.
- Szeged, Hungary, ELI-ALPS User Workshop (09.-10.11.2017)
Moshhammer, R.:
Reaction Microscopes visualize the Dynamics of Atoms and Molecules.
- Thessaloniki, Greece, Patras Workshop 2017 (15.-19.05.2017)
Vogl, S.:
How to save the WIMP?
- Tokyo, Japan, PPNS Symposium (07.11.2017)
Schwenk, A.:
From nuclear forces to nuclei and matter.

- Toulouse, France, 3rd meeting on the Energy processing of Large Molecules (EPoLM3) (14.-16.06.2019)
Mishra, P.M.:
Photo-detachment spectroscopy of anions in Cryogenic Storage Ring: CSR.
- Trento, Italy, ECT* Workshop "Bridging nuclear and gravitational physics: the dense matter equation of state" (07.06.2017)
Schwenk, A.:
Equation of state and neutron star properties constrained by chiral effective field theory and observations.
- Venice, Italy, EPS Conference on High Energy Physics, HEP2017 (05.-12.07.2017)
Schmelling, M.:
Measurement of Inelastic Cross-Section and Central Exclusive Production with the LHCb Detector.
Hofmann, W.:
High Energy Cosmic Gamma Rays.
- Venice, Italy, The European Physical Society Conference on High Energy Physics (EPS-HEP) (05.-12.07.2017)
Lindner, M.:
Direct Searches for Dark Matter. (plenary talk)
Queiroz, F.:
Overview on WIMP Dark Matter.
Smirnov, A. Y.:
Open problems in neutrino physics.
- Waikoloa (HI), USA, Nonlinear Optics 2017 (17.-21.07.2017)
Blättermann, A.:
A strong-field-ionization-enabled temporal gate for resolving ultrafast dynamics.
- Warsaw, Poland, International Conference on Precision Physics and Fundamental Physical Constants (FFK-2017) (15.-19.05.2017)
Sturm, S.:
Testing strong field QED via the magnetic moment of highly charged ions.
Oreshkina, N. S.:
Variation of the fundamental constants in simple ions.
- Warsaw, Poland, PLANCK 2017: 20th International Conference from the Planck Scale to the Electroweak Scale (22.-27.05.2017)
Arcadi, G.:
Augury of Darkness.
Lindner, M.:
Conformal Extensions of the Standard Model. (plenary talk)
- Warsaw, Poland, Scalars 2017 (30.11.-03.12.2017)
Lindner, M.:
New symmetries and electro-weak symmetry breaking.
- Washington, D. C., USA, Topical Meeting on Isotope-Based Energy Sources (Workshop on "Radioisotope power sources; gamma rays, nuclei and matter") (15.-16.05.2017)
Wu, Y.:
Nuclear excitation with lasers - x-ray free-electron lasers and intense optical lasers.
- Xi'an, China, 6th International Conference on Attosecond Physics (02.-07.07.2017)
Ott, C.:
Tracking the Insulator-to-Metal Phase Transition in VO₂ with Few-Femtosecond Extreme Ultraviolet Transient Absorption.
Stoß, V.:
Reconstructing real-time quantum dynamics in strong and short laser fields.
- Xi'an, China, China-Germany Collaboration Workshop on High Energy Density Science and Technology (17.-19.10.2017)
Harman, Z.:
Generation of high-quality ion and x-ray beams via intense laser fields.
Hatsagortsyan, K. Z.:
Radiation dominated processes in ultrastrong laser fields.
- Yokohama, Japan, Light driven Nuclear-Particle physics and Cosmology (LNPC'17) (19.-21.04.2017)
Hatsagortsyan, K. Z.:
Radiation dominated nonlinear Compton scattering: signatures of quantum dynamics and attosecond gamma-bursts.
Di Piazza, A.:
Strong-field QED in tightly focused laser beams.

At Other Institutes

Aharonian, F.:

Probing Origin of Cosmic Rays.

Mainz, Germany, Johannes Gutenberg-Universität, Prisma Colloquium (10.05.2017)

Akhmedov, E.:

Do non-relativistic neutrinos oscillate?

Lisbon, Portugal, Instituto Superior Tecnico, CFTP/LIP Neutrino Forum (19.10.2017)

Neutrino oscillations in quantum mechanics and quantum field theory.

Lisbon, Portugal, Instituto Superior Tecnico, CFTP Seminar (25.10.2017)

Alanne, T.:

Partially composite Goldstone Higgs.

Institute for Theoretical Physics, University of Heidelberg, particle phenomenology seminar (14.11.2017)

Arcadi, G.:

Probing the WIMP paradigm with Direct Detection and Collider.

ITP Heidelberg, Germany (16.05.2017)

Theoretical Models for Dark Matter.

IFT Madrid, Spain (27.02.2017)

Bilous, P. V.:

Decay channels of Th-229 nuclear isomeric state involving atomic electrons.

Sofia, Bulgaria, Institute for Nuclear Researches and Nuclear Energy, Physics Seminar (30.03.2017)

Blaum, K.:

Precision Measurements of Fundamental Properties of Atomic Particles in Penning traps.

University of Innsbruck, Austria (17.01.2017)

Measuring the World - Precision Measurements of Fundamental Properties of Atoms and Nuclei.

Festkolloquium, Universität Mainz, Germany (18.04.2017)

Universität Bielefeld, Germany (22.05.2017)

Humboldt-Universität Berlin, Germany (06.06.2017)

Physikalisches Kolloquium, Institut für Physik, Universität Kassel, Germany (07.12.2017)

Physikalisches Kolloquium, Universität Ulm, Germany (11.12.2017)

Radioactive Ion Beams as Versatile Probes for Fundamental Studies.

Retirement celebration Professor Mark Huysse, Thermotechnical Institute, KU Leuven, Belgium (15.09.2017)

Buck, C.:

Recent results of the Double Chooz reactor neutrino experiment.

Assergi, Italy LNGS seminar (16.02.2017)

Cavaletto, S. M.:

Line-shape manipulation and deterministic control of strong-field excited systems.

Madrid, Spain, Universidad Autónoma de Madrid, Physics Colloquium (14.03.2017)

Crespo López-Urrutia, J. R.:

Cold highly charged ions for highest-precision spectroscopy.

Mainz, Germany, Mainz University, Physikalisches Kolloquium (03.05.2017)

Progress report on the CryPTE-II project.

Braunschweig, Germany, PTB (24.05.2017)

Seminar on highly charged ions (group Savin) New York, USA, Columbia University (20.06.2017)

Di Piazza, A.:

Modern aspects of quantum electrodynamics in intense and tightly-focused laser fields.

Măgurele, Romania, ELI-NP, Physics Seminar (13.11.2017)

Berkeley, California, USA, Lawrence Berkeley National Laboratory, Physics Seminar (10.10.2017)

Menlo Park, California, USA, SLAC National Accelerator Laboratory, High Energy Density Science Seminar (26.09.2017)

Recent developments in classical and quantum electrodynamics in intense laser fields.

Villigen, Switzerland, Paul Scherrer Institute, Physics Colloquium (27.04.2017)

Dorn, A.:

Electron Impact Ionization of Atoms, Molecules and Clusters.

Faculty Colloquium, Missouri University of Science and Technology (UST), USA (15.11.2017)

Evers, J.:

X-ray quantum optics with Mössbauer nuclei.

Kaiserslautern, Germany, TU Kaiserslautern, Physikalisches Kolloquium (26.06.2017)

Strong-field physics with nuclei and highly charged ions.

Heidelberg, Germany, Department of Physics and Astronomy, University of Heidelberg, SFB 1225 ISOQUANT lunchtime seminar (28.04.2017)

Nuclear quantum optics.

Hamburg, Germany, DESY, PETRA III Beamline P01 evaluation (26.04.2017)

George, S.:

The Cryogenic Storage Ring Project.

ISOLDE Seminar Talk, CERN, Geneva, Switzerland (16.08.2017)

Giacinti, G.:

Cosmic-Rays (and Gamma-Rays) as Probes of Interstellar Magnetic Fields.

Paris, France, École Normale Supérieure (ENS), Seminar (31.03.2017)

Goertz, F.:

Das Standardmodell der Teilchenphysik: Symmetrien und Lagrangedichte.

CERN, Switzerland, Workshop 'Netzwerk Teilchenwelt' for Students (09.06.2017)

Flavor, Electroweak Symmetry Breaking, and Cosmology.

ITP Heidelberg, Germany, Teilchentee (18.05.2017)

DESY Hamburg, Germany, Theory Seminar

Flavor in EWSB and in the Sky.

(15.05.2017)

The Axiflavor.

CERN, Geneva, Switzerland, BSM Forum (29.03.2017)

SISSA Trieste, Italy, TPP Group Seminar (02.02.2017)

Grieser, M.:

Langsame Extraktion von Elektronen-gekühlten Ionen-Strahlen.

Marburger Ionenstrahl-Therapiezentrum (MIT), Marburg, Germany, (01.02.2017)

Gunst, J.:

X-rays and nuclear transitions: mutual control via resonant interaction.

Jena, Germany, Helmholtz Institute Jena, Internal Group Seminar (11.04.2017)

Isomer Triggering in Plasmas via Nuclear Excitation by Electron Capture.

Sofia, Bulgaria, Institute of Nuclear Research and Nuclear Energy (INRNE), Seminar (30.03.2017)

Hatsagortsyan, K. Z.:

Interplay between Coulomb-focusing and non-dipole effects in strong-field ionization.

Hannover, Germany, Leibniz University Hannover, Group Seminar (31.05.2017)

Radiation dominated nonlinear Compton scattering.

Aarhus, Denmark, Aarhus University, Special Seminar of the Physics Department (18.01.2017)

Helmboldt, A.:

Prospects for three-body Higgs decays into extra light scalars.

Heidelberg, Germany, Particle Phenomenology seminar of the Institute for Theoretical Physics (10.01.2017)

Kirk, J.G.:

Inductive spikes in the Crab Nebula.

Zeuthen, Germany, DESY, Colloquium (22.09.2017)

Kong, X.:

From electromagnetically induced transparency to Autler-Townes splitting with x-rays.

ICFO, Barcelona, Spain, The Institute of Photonic Sciences (ICFO), seminar (07.12.2017)

Kreckel, H.:

Laboratory Astrophysics with Stored Molecular Ions.

Innsbruck, Österreich, Institutsseminar, Institut für Ionenphysik und Angewandte Physik, Universität Innsbruck (22.11.2017)

Lindner, M.:

The Search of Dark Matter in the Universe.

Mumbai, India, Colloquium at Tata Institute of Fundamental Research (TIFR) (13.12.2017)

Neutrino Theory.

Max-Planck-Institut für Physik, München, 100 Year Anniversary Workshop (10.10.-12.10.2017)

The dark side of the universe.

Heidelberg, „Heraeus summer school 2017“ (28.08.2017)

Direct Dark Matter Search with XENON1T.

Max-Planck-Institut für Physik, München, Kolloquium (04.07.2017)

Direct detection of dark matter.

Universität Frankfurt, Kolloquium (08.02.2017)

Maneschg, W.:

Present status of coherent neutrino nucleus scattering searches.

Mainz University, Germany, Prisma Colloquium and Seminar of the Graduate School (14.06.2017)

Marrodán Undagoitia, T.:

First results from the XENON1T dark matter experiment.

London, UK, Physics seminar, Imperial College London (11.2017)

Hamburg DESY, Germany, Physics seminar (25.10.-26.10.2017)

Zeuthen, DESY, Physics seminar (25.10.-26.10.2017)

XENON1T first results.

Bonn, Germany, Particle Physics Seminar (06.2017)

Meuren, S.:

Theoretical and Experimental Investigation of the Nonperturbative Regime of Quantum Electrodynamics.

Menlo Park, California, USA, Stanford Linear Accelerator Center (SLAC), Seminar (30.03.2017)

Mishra, P. M.:

Photo-excitation experiments and development of an electrostatic beamline of Cryogenic Storage Ring CSR.

RIKEN, Japan (26.07.2017)

Mitchell, A.:

Very High Energy Gamma-ray Astronomy with H.E.S.S. and CTA.

Holmbury St. Mary-Surrey, United Kingdom, UCL, Mullard Space Science Laboratory, Astrophysics-Seminar (23.02.2017)

Zürich, Switzerland, University of Zürich, Physik-Institut, Experimental Particle and Astroparticle - Physics Seminar (29.11.2017)

Oreshkina, N. S.:

Hyperfine splitting in simple ions for the search of the variation of fundamental constants.

Braunschweig, Germany, PTB, Atomic Clock Seminar (13.10.2017)

Ott, C.:

XUV correlated electron dynamics in weak and strong fields.

Hamburg, Germany, DESY, CFEL Molecular Physics Seminar (4.5.2017)

XUV absorption spectroscopy in weak and strong fields.

Jena, Germany, Helmholtz Institut Jena, Helmholtz Institutsseminar (31.5.2017)

Pfeifer, T.:

Listening to the ultrafast chat of two excited electrons - And asking them Physics questions.

Konstanz, Germany, Physikalisches Kolloquium (23.05.2017)

Oldenburg, Germany, Physikalisches Kolloquium (29.05.2017)

Kaiserslautern, Germany, Physikalisches Kolloquium (19.06.2017)

Platscher, M.:

Cosmological Aspects of Bimetric Gravity.

München, Germany, MPP Astroparticle Seminar (20.04.2017)

Heidelberg, Germany, ITP Seminar (09.02.2017)

Queiroz, F.:

Probing the Nature of Dark Matter with Direct Detection Experiments Only.

Orsay, France, LPT 2017 (07.2017)

New Physics Milestones: From Dark Matter to Flavor Physics.

Odense, Denmark, Institute for Advanced Studies (06.2017)

Probing the Nature of Dark Matter.

Natal, Brazil, International Institute of Physics (05.2017)

Joao Pessoa, Brazil, Federal Univ. of Paraiba (05.2017)

Darmstadt, Germany, GSI Helmholtz Centre for Heavy Ion Research (01.2017)

Oslo, Norway, Oslo Univ. (01.2017)

Research Overview: From Dark Matter to Flavor Physics.

Louvain, Belgium, Univ. Catholique de Louvain (02.2017)

Dark Matter Overview: A Step Toward the Nature of Dark Matter.

Brussels, Belgium, Vrije Univ. of Brussels (02.2017)

Schmelling, M.:

Physics Highlights from the LHCb Experiment.

Siegen, Germany, Universität, Physik-Kolloquium (30.11.2017)

Heavy Ion Physics with the LHCb Detector.

München, Germany, TUM, Seminar on Physics of Strong Interactions (30.01.2017)

Schwenk, A.:

Chiral effective field theory for dark matter direct detection.

Teilchen-Tee, ITP, Heidelberg, Germany, (21.06.2018)

Fermionen und Materie - Das Prinzip, das Ordnung bringt.

Saturday Morning Physics, Darmstadt, Germany (11.11.2017)

Schwingerheuer, B.:

Search for Neutrinoless Double Beta Decay of ^{76}Ge : latest results from GERDA and a novel detector design for GERDA & LEGEND.

Dubna, Russia, Joint Institute for Nuclear Research JINR, Seminar (11.09.2017)

Viana, A.:

The Galactic Centre at very-high energies.

Santiago de Chile, PUC, Seminar (19.10.2017)

PeV particle acceleration at the Galactic Center.

São Carlos, Brazil, Instituto de Física, Seminar (25.10.2017)

Vogl, S.:

FIMPs and friends: Probing dark matter with long-lived particles at the LHC.

Heidelberg, Germany, Ruprecht-Karls-Universität, Particle Phenomenology Seminar (28.11.2017)

Dark Matter and the LHC: Realistic simplified models for collider searches.

Detroit, USA, Wayne State University, High Energy Physics Seminar (14.08.2017)

Simplified models in collider searches for dark matter.

Heidelberg, Germany, Ruprecht-Karls-Universität, Colliding Pizza Seminar (16.01.2017)

Wolf, A.:

New Opportunities for Molecular Collision Experiments in Cryogenic Storage Rings.

RIKEN, Tokyo, Special Seminar (01.02.2017)

Xu, X.:

BSM physics in neutrino scattering.

Ruprecht-Karls-Universität, Heidelberg, Germany (11.2017)

Invited Talks 2018

At Conferences and Symposia

Aachen, Germany, 7th Symposium on Symmetries in Subatomic Physics (SSP 2018) (12.06.2018)

Köhler-Langes, F.:

Towards Parts Per Trillion Mass Measurements on the Proton and Other Light Nuclei at LIONTRAP.

Sturm, S.:

Stringent tests of bound-state QED using highly charged ions.

Bad Honnef, Germany, 670. Heraeus Seminar "Fundamental Constants: Basic Physics and Units" (13.-18.05.2018)

Schüssler, R.:

High-Precision Mass Measurements with PENTATRAP.

Sturm, S.:

The magnetic moment of highly charged ions: Test of strong field QED and access to fundamental constants.

Crespo López-Urrutia, J. R.:

Highly charged ions for fundamental studies.

Oreshkina, N. S.:

Hyperfine splitting in simple ions for the search of the variation of fundamental constants.

Bad Honnef, Germany, 676. WE-Heraeus-Seminar on "Novel optical clocks in atoms and nuclei" (09.-12.07.2018)

Crespo López-Urrutia, J. R.:

Electronic transitions in highly charged ions with possible applications to the electron-nucleus bridge mechanism.

Pálffy-Buß, A.:

Nuclear and atomic structure calculations for the ^{229m}Th isomeric state.

Bad Honnef, Germany, FEL School (26.09.2018)

Moshhammer, R.:

Atomic Physics at the FEL.

Barnaul and Belokurikha, Russia, 26th European Cosmic Ray Symposium, ECRS 2018 (06.-10.07.2018)

Giacinti, G.:

TeV-PeV Cosmic-Ray Anisotropy and Local Interstellar Turbulence.

Basel, Switzerland, 7th FLASY conference, University of Basel (02.-05.07.2018)

Trautner, A.:

Vectorlike chiral" fourth family to explain muon anomalies.

Batavia, IL, USA, Physics Opportunities in the Near DUNE Detector Hall (03.-07.12.2018)

Bischer, I.:

General Neutrino-Electron Interactions at the DUNE Near Detector.

Berlin, Germany, Conference on TeV Particle Astrophysics, TeVPA 2018 (27.-31.08.2018)

Hofmann, W.:

Gamma-ray astronomy: Status and Perspectives.

Dembinski, H.:

Data-driven model of the cosmic-ray flux and mass composition over all energies.

Marrodán Undagoitia, T.:

Direct dark matter detection.

Bern, Switzerland, ISSI workshop "The Physics of the Very Local Interstellar Medium and its Interaction with the Heliosphere" (17.-20.09.2018)

Giacinti, G.:

Simulations of the Cosmic-Ray Anisotropy down to TeV Energies.

Bielefeld, Germany, 13. Kosmologietage" (04.05.2018)

Doering, C.:

Gravitational Waves from Peccei-Quinn Symmetry breaking.

Blacksburg, USA, NuFact 2018 (08.2018)

Xu, X.:

Probing neutrino coupling to a light scalar with coherent neutrino scattering.

Bochum, Germany, DPG Spring Meeting (01.03.2018)

Köhler-Langes, F.:

A New Experiment for High-Precision Measurements on Light Atomic Masses - An Improved Value of the Atomic Mass of the Proton.

Bonn, Germany, 21th International Planck Conference (21.-25.05.2018)

Alanne, T.:

Partially composite Goldstone Higgs.

Arcadi, G.:

Leptogenesis from Small Lepton Number Violation.

Goertz, F.:

Effective Field Theory for the LHC and Dark Matter.

Bormio, Italy, 56. International Winter Meeting on Nuclear Physics (22.-26.01.2018)

Blaum, K.:

Precision atomic physics measurements in Penning traps and tests of fundamental symmetries.

Caparica, Portugal, 15th Topical Workshop of the Stored Particles Atomic Physics Research Collaboration (SPARC) (07.-11.09.2018)

Crespo López-Urrutia, J. R.:

Towards VUV optical clocks with highly charged ions.

Novotny, O.:

Results from the Heidelberg Cryogenic Storage Ring.

Chicago, USA, University of Chicago, Workshop on coherent elastic neutrino-nucleus scattering (CEvNS) (02.-03.11.2018)

Lindner, M.:

The CONUS Coherent Reactor Neutrino Scattering Experiment.

Chişinău, Moldova, 9th International Conference on Materials Science and Condensed Matter Physics (24.-28.09.2018)

Evers, J.:

X-ray quantum optics.

Cochem, Germany, Int. Workshop: "Monitoring the non-thermal Universe 2018" (18.-21.09.2018)

Romoli, C.:

Complex spectro-temporal gamma-ray behaviour of Mrk 501.

Daejeon, Korea, 6th Symposium on Neutrinos and Dark Matter in Nuclear Physics (NDM18) (28.06.-03.07.2018)

Lindner, M.:

Coherent Neutrino Scattering and the Status of CONUS.

Eliseev, S.:

Penning Traps & Neutrino Mass.

Daejeon, South Korea, Attosecond physics at the Nanoscale, PCS/IBS (29.10.-02.11.2018)

Pfeifer, T.:

Approaching nano-scale dynamics from below: Excited few-electron systems in strong fields.

Darmstadt, Germany, GSI, EMMI RRTF "The physics of neutron star mergers at GSI/FAIR" (14.06.2018)

Schwenk, A.:

Equation of state and neutron star properties constrained by chiral effective field theory and observations.

Darmstadt, Germany, NARRS Workshop at GSI Darmstadt (13.-15.03.2018)

Grieser, M.:

A new storage ring for ISOLDE.

Darmstadt, Germany, Uncertainty Quantification at the Extremes (ISNET-6) (10.10.2018)

Schwenk, A.:

Uncertainty estimates for neutron-rich nuclei and neutron stars.

Denver, USA, 232nd AAS (03.-07.06.2018)

Crespo López-Urrutia, J. R.:

Laboratory X-ray studies with trapped highly charged ions using synchrotron and free-electron lasers.

Dresden, Germany, „5th International Solar Neutrino Conference" (11.-15.06.2018)

Smirnov, A. Y.:

MSW effect, solar neutrinos and searches for new physics.

Dresden, Germany, International Workshop on Atomic Physics 2018 (27.-30.11.2018)

Di Piazza, A.:

Ultrarelativistic electron states and strong-field QED processes in tightly focused laser pulses.

Hatsagortsyan, K. Z.:

High-energy direct photoelectron spectroscopy in strong-field ionization.

Dublin, Ireland, DIAS Summer School in High-Energy Astrophysics (19.-29.06.2018)

Tuffs, R.J.:

Galaxis.

Dublin, Ireland, International Conference on Spectral Line Shapes (ICSLS 2018) (17.-22.06.2018)

Pfeifer, T.:

Switching Lorentzian to Fano Line Shapes with Intense Lasers — from attosecond electronics to Sub-Ångstrom Nuclear Resonance Metrology.

En Bokek, Israel, Workshop „Isradynamics (22.-29.04.2018)

Kirk, J.G.:

Gamma-ray flares from pulsar wind nebulae.

Erlangen, Germany, DPG Spring Meeting SAMOP (04.-09.03.2018)

Harth, A.:

Solving attosecond time-delay puzzles near resonances and in the continuum: The future of OPCPA-driven high-harmonic generation.

Köhler-Langes, F.:

A New Experiment for High-Precision Measurements on Light Atomic Masses - An Improved Value of the Atomic Mass of the Proton.

Meyer, C.:

First molecular beam cooled to its lowest quantum states at the Heidelberg Cryogenic Storage Ring.

Schnorr, K.:

Tracing the nuclear and electronic structure of excited molecules using femtosecond XUV and X-ray pulses.

Fort Lauderdale, Florida, USA, Third annual workshop of the Group on Precision Measurements and Fundamental Constants "Precision-measurement searches for new physics" (28.05.2018)

Blaum, K.:

Precision measurements of fundamental properties of atoms and nuclei in Penning traps.

Garching, Germany, SNI 2018 (17.-19.09.2018)

Moshhammer, R.:

Atomic and Molecular Physics Experiments with the REMI-Endstation at FLASH2.

Geneva, CERN, Switzerland, EP-Colloquium at CERN (28.05.2018)

Lindner, M.:

Results from the 1 tonne*year Dark Matter Search with XENON1T.

Geneva, CERN, Switzerland, European Neutrino "Town" Meeting (22.-24.10.2018)

Lindner, M.:

Neutrinos: Overview.

Geneva, CERN, Switzerland, The Neutrino Platform Week (29.01.-02.02.2018)

Akhmedov, E.:

Neutrino coherence and decoherence.

Rodejohann, W.:

Where are we, where are we heading to?

Smirnov, A. Y.:

Solar neutrinos: status and prospects.

Geneva, Switzerland, 82nd ISOLDE Collaboration Committee meeting at CERN (26.06.2018)

Grieser, M.:

A preliminary design for a compact storage ring and possible integration into the HIE-ISOLDE hall.

Grenoble, France, ESRF User Meeting 2018 (05.-07.02.2018)

Heeg, K. P.:

Sharp X-ray pulses for nuclear resonances. (plenary talk)

Hamburg, Germany, DESY User Meeting 2018, Satellite Workshop on Photon Science (22.01.2018)

Moshhammer, R.:

Pump-Probe Experiments with the Reaction Microscope at FLASH2.

Hamburg, Germany, Laboratory Astrophysics Workshop 2018 at DESY (10.10.2018)

Novotny, O.:

First Rotationally Specific Dissociative Recombination Measurements at the CSR Ion Storage Ring.

Hamburg, Germany, Particle and Astroparticle Physics Colloquium and Workshop on "Probing strong-field QED in electron-photon interactions" (21.-24.08.2018)

Keitel, C. H.:

Extremely high-intensity laser interactions with fundamental quantum systems. (plenary talk)

Tamburini, M.:

Giant energy transfer from an electron bunch to a photon beam mediated by radiation reaction.

- Hamburg, Germany, The Puzzle of Dark Matter (29.-31.10.2018)
Tenorth, V.T.:
Extended Dark Matter EFT.
- Hamburg, Germany, XXI International Conference on Ultrafast Phenomena (15.-20.07.2018)
Birk, P.:
Real-time Reconstruction of Non-equilibrium Quantum Dynamics.
- Hannover, Germany, EQLIPS Workshop 2018 (22.06.2018)
Sturm, S.:
Probing the limits of QED with laser-cooled highly charged ions.
- Heidelberg, Germany, ALICE Jpsi2ee PAG Workshop (29.-31.01.2018)
Schmelling, M.:
Introduction to (T)MVA.
- Heidelberg, Germany, Dark Matter at the Dawn of Discovery? (09.-11.04.2018)
Vogl, S.:
Connection of indirect detection to LHC.
- Heidelberg, Germany, DM@LHC (03.-06.04.2018)
Alanne, T.:
Extended Dark Matter EFT.
Tenorth, V.T.:
Consistent Models of Dark Matter at the LHC.
Schwenk, A.:
Linking LHC and direct detection results in Higgs Portals.
Marrodán Undagoitia, T.:
Direct detection: results from liquid noble-gas experiments.
- Heidelberg, Germany, Hillas Symposium (10.-12.12.2018)
Aharonian, F.:
Hillas Plot: trivial and non-trivial implications.
Hofmann, W.:
Ground-based gamma-ray astronomy: Quo vadis.
Zanin, R.:
The Crab: a key source in high-energy astrophysics.
- Heidelberg, Germany, Mini-Workshop at Max-Planck-Institut für Kernphysik (12.06.2018)
Eliseev, S.:
Penning Trap measurements to support direct neutrino mass determination.
- Heidelberg, Germany, SFB ISOQUANT PI Meeting 2018 (09.11.2018)
Sturm, S.:
Precision physics in strong-field QED.
- Heidelberg, Germany, SFB ISOQUANT Workshop (03.05.2018)
Mooser, A.:
Bayesian analysis in g-factor measurements.
Sturm, S.:
Precision physics in strong-field QED and limits on the time variation of fundamental constants.
- Heidelberg, Germany, SGSO Workshop (08.-09.10.2018)
Casanova, S.:
Galactic Accelerators: Perspectives for SGSO.
- Heidelberg, Germany, XXVIII International Conference on Neutrino Physics and Astrophysics (Neutrino 2018) (04.-09.06.2018)
Buck, C.:
New Results from the Double Chooz Experiment.
Maneschg, W.:
Status of the CONUS experiment.
- Hvar Island, Croatia, On a safe road to quantum gravity with matter (11.-14.09.2018)
Alanne, T.:
The beta-function for gauge-Yukawa theory at large Nf.
- Hyderabad, India, 16th Conference on Flavor Physics and CP violation (FPCP2018) (14.-18.07.2018)
Rodejohann, W.:
Neutrino Physics: Present and Future.

- Karlsruhe, 35th KATRIN Collaboration Meeting (07.-09.11.2018)
Rodejohann, W.:
Probing physics beyond the Standard Model with the full spectrum.
- Karlsruhe, Germany, A Quest for Guiding Principles Workshop (01.-02.10.2018)
Brdar, V.:
Low Scale Left-Right Symmetry and Naturally Small Neutrino Mass.
- Karlsruhe, Germany, Flavor and Dark Matter (25.-27.09.2018)
Tenorth, V.T.:
Flavor and Dark Matter from the Electroweak Scale.
Xu, X.:
Searching for new physics in coherent neutrino scattering.
- Karlsruhe, Germany, Invisibles 2018 School and Workshop (03.-07.09.2018)
Trautner, A.:
CP violation caused by another symmetry.
- Kazan, Russia, 4th Russian-German-French Laser Symposium (23.-27.04.2018)
Evers, J.:
Shaping the spectra of short x-ray pulses by mechanical means.
Pálffy-Buß, A.:
An overview on x-ray quantum optics with nuclei. (plenary talk)
- Kreuth, Germany, 9th Ringberg workshop on Science with FELs (07.-10.02.2018)
Cavaletto, S. M.:
Narrow-band X-rays using FELs and highly charged ions.
Ott, C.:
XUV-only nonlinear wave mixing and absorption spectroscopy.
- La Palma, Canary Island, Spain, Symposium "Frontiers of Astroparticle Physics" (09.-11.10.2018)
Hofmann, W.:
The Cherenkov Telescope Array.
- La Thuile, Italy, XXXII Les Rencontres de Physique de la Vallée d'Aoste, (25.02.-03.03.2018)
Schmelling, M.:
Heavy Ion Physics at ATLAS, CMS and LHCb.
- Lanzhou, China, Symposium on Precision Physics Experiments with Stored Highly Charged Ions at Low Energies, IMPCAS (13.-17.08.2018)
Grieser, M.:
The low energy cooler storage ring TSR.
Wolf, A.:
Electron collision experiments in the TSR and the TSR cold electron target.
- L'Aquila-GSSI, Italy, CRATER Workshop "Cosmic Ray Transport and Energetic Radiations" (28.05.-01.06.2018)
Giacinti, G.:
Cosmic-Ray Diffusion in Galactic Magnetic Field Models.
Aharonian, F.:
Cosmic Rays in the Galaxy: Concluding Remarks.
- Leuven, Belgium, Euroschool on Exotic Beams 25-years Symposium (30.08.2018)
Blaum, K.:
Ion traps and storage rings in radioactive beam research.
- Lisboa, Portugal, 15th Topical Workshop of the Stored Particles Atomic Physics Research Collaboration (SPARC'2018) (07.-11.09.2018)
Oreshkina, N. S.:
Hyperfine splitting in simple ions for the search of the variation of fundamental constants.
- Lisboa, Portugal, 19th International Conference Physics of Highly Charged Ions (HCI 2018) (03.-07.09.2018)
Crespo López-Urrutia, J. R.:
Forbidden optical transitions in sympathetically cooled HCI: Applications to fundamental studies.
- Livermore, CA, USA; "NIF and JLF User Group Meeting 2018"; Lawrence Livermore National Laboratory (04.-07.02.2018)
Giacinti, G.:
Particle Acceleration at Supernova Shock Breakout.
- Livermore, California, USA, National Ignition Facility Workshop on Nuclear Processes in Dense Plasmas (30.07.-01.08.2018)
Pálffy-Buß, A.:
Nuclear excitation by electron capture in dense plasmas.

- Livermore, USA, Applied Antineutrino Physics workshop (AAP18) (10.-11.10.2018)
Almazan, H.:
The STEREO Experiment.
- London, UK, NuPhys2018: Prospects in Neutrino Physics (19.-21.12.2018)
Smirnov, A. Y.:
Neutrino mixing via the neutrino portal.
- Los Angeles, USA, UCLA Dark Matter Conference 2018 (21.-23.02.2018)
Lindner, M.:
DARWIN.
- Mainz, Germany, Astroparticle Physics in Germany - Status and Perspectives (17.-19.09.2018)
Maneschg, W.:
Coherent elastic neutrino nucleus scattering: recent results and perspectives.
Rodejohann, W.:
Probing models and new physics with future neutrino experiments.
Hinton, J.A.:
Building CTA.
- Mainz, Germany, MITP Workshop „Bridging the Standard Model to New Physics with the Parity Violation Program at MESA" (23.-04.05.2018)
Lindner, M.:
The CONUS coherent Neutrino scattering Experiment.
- Mainz, Germany, SFB 1044 Workshop (01.10.2018)
Schwenk, A.:
Chiral effective field theory for dark matter direct detection.
- Montpellier, France; LUPM Laboratory (15.02.2018)
Giacinti, G.:
Cosmic-Rays and Gamma-Rays as Probes of the Interstellar Turbulence.
- Moscow, Russia, IV International Conference on Particle Physics and Astrophysics (22.-26.10.2018)
Schwingerheuer, B.:
Lepton number violation search with neutrinoless double beta decay: overview over experiments.
- Mumbai, India, IIT Workshop on Neutrino Physics and Astrophysics (14.-18.12.2018)
Lindner, M.:
Neutrinos and Dark Matter.
- München, Germany, 2018 MIAPP programme "The High Energy Universe" (26.02.-23.03.2018)
Hofmann, W.:
Very High Energy Gamma Ray Astronomy.
- Nagoya, Japan, 20th International Symposium on Very High Energy Cosmic Ray Interactions, ISVHECRI 2018 (21.-25.05.2018)
Dembinski, H.:
LHCb: Recent and upcoming results related to cosmic ray interactions.
- Nottingham, UK, 27th Annual Laser Physics Workshop (LPHYS'18) (16.-20.07.2018)
Pfeifer, T.:
Imaging electronic and structural processes of molecules interacting with intense optical and XUV fields.
Nonlinear response functions in intense optical and (intense) XUV laser fields.
Di Piazza, A.:
Implementing nonlinear Compton scattering beyond the local constant field approximation.
Evers, J.:
Shaping the Spectra of Short X-Ray Pulses by Mechanical Means.
Harman, Z.:
Laser-produced high-quality x-ray beams for medical purposes.
Keitel, C. H.:
Nuclear excitation and narrow-band hard-x-ray lasing.
Under-the-Tunneling-Barrier Quantum Dynamics in Strong-Field Ionization.
Pálffy-BuB, A.:
Rabi oscillations of x-ray radiation between two nuclear ensembles.
Tamburini, M.:
Giant Collimated Gamma-Ray Flashes.
Wistisen, T. N.:
Experimental Evidence of Quantum Radiation Reaction in Aligned Crystal.

- Obergurgl, Austria, HGSFP Winter School 2018 (25.-30.01.2018)
Harman, Z.:
Quantum electrodynamics of bound systems.
- Obergurgl, Austria, XXIst Symposium on Atomic, Cluster and Surface Physics 2018 (SASP2018), (11.-16.02.2018)
Ren, X.:
Electron-impact induced ionization and fragmentation in hydrated biomolecule clusters.
- Orsay, France, Workshop on Core-Collapse Supernova Neutrino Detection (01.07.2018)
Brdar, V.:
Triangulation Method for Locating a Core-Collapse Supernova.
- Osaka, Japan, HeKKSaGOn WG5 Preconference Discussion Meeting (11.04.2018)
Ott, C.:
XUV-only nonlinear wave mixing and absorption spectroscopy.
- Osaka, Japan, Muonium Workshop, University of Osaka (10.-11.12.2018)
Mooser, A.:
A New Experiment for the measurements of the g-Factor of $^3\text{He}^{2+}$.
- Ostuni, Brindisi, Italy, „Neutrino Oscillation Workshop 2010 (NOW2018)“ (09.-16.09.2018)
Lindner, M.:
New neutrino states and interactions. (plenary talk)
- Ostuni, Italy, 20th International Planck Conference (09.-16.09.2018)
Arcadi, G.:
Leptogenesis and Dark Matter in Low Energy See-Saw.
- Palm Springs, CA, USA, Conference on the Intersections of Particle and Nuclear Physics (28.05.-03.06.2018)
Knöpfle, K.T.:
Recent Progress in Double Beta Decay and Latest Results from GERDA.
- Paris, France, APC, Commemoration Day for Patrick Fleury (12.09.2018)
Völk, H. J.:
Personal Memories on Patrick Fleury.
Hofmann, W.:
Patrick Fleury & Gamma ray astronomy with H.E.S.S. and CTA.
- Paris, France, Conference on Ultra High Energy Cosmic Rays, UHECR 2018 (08.-12.10.2018)
Dembinski, H.:
Report on Tests and Measurements of Hadronic Interaction Properties with Air Showers.
Kirk, J.G.:
Inductive particle acceleration.
- Paris, France, International Conference on the History of Neutrino (05.-07.09.2018)
Akhmedov, E.:
Quantum mechanical aspects and subtleties of neutrino oscillations.
Smirnov, A. Y.:
The Mikheyev-Smirnov-Wolfenstein (MSW) effect.
- Paris, France, Workshop "Searching for the Sources of Galactic Cosmic Rays (11.-14.12.2018)
Aharonian, F.:
Summary Talk.
Giacinti, G.:
Anisotropic Diffusion of Cosmic-Rays in the Galaxy.
Hofmann, W.:
Status of CTA.
Hinton, J.A.:
Very high energy gamma ray view of Galaxy.
Casanova, S.:
PeVatrons in the very high energy gamma ray sky: current status and perspective for CTA.
Yang, R.:
Cosmic rays from stellar clusters? Current status and perspectives with CTA.
- Petrozavodsk, Russia, IX International Symposium on Exotic Nuclei (10.-15.09.2018)
Eliseev, S.:
Penning-Trap Mass Spectrometry in Fundamental Physics.
- Porto Palo di Capopassero, Sicilia, Italy, CRIS 2018 (18.-22.06.2018)
Zanin, R.:
The Cherenkov Telescope Array Project: Overview and the Galactic Science Program.

- Potsdam, Germany, Dynamics of Systems on the Nanoscale" (DySoN 2018) (08.-12.10.2018)
Dorn, A.:
Hydration Dependence of Ionization and Fragmentation Reactions in Bio-Relevant Molecules.
- Prague, Czech Republic, EPS DPP satellite workshop on High-field laser-plasma interaction (07.07.2018)
Di Piazza, A.:
Implementing nonlinear Compton scattering beyond the local constant field approximation.
- Quy Nhon, Vietnam, 14th Rencontres du Vietnam: Very High Energy Phenomena in the Universe (12.-18.08.2018)
Schoorlemmer, H.:
Science with the Southern Gamma-ray Survey Observatory.
- Rehovot, Israel, 5th European Conference on Trapped Ions (ECTI 2018), Weizmann Institute of Science (19.11.2018)
Blaum, K.:
Precision atomic and nuclear mass measurements on trapped exotic species.
- Rende, Calabria, Italy, Particle Acceleration and Transport: from the Sun to Extragalactic Sources (12.-16.11.2018)
Casanova, S.:
Constraining the energetic particle content of SNRs through gamma-ray observations.
- Riezlern, Austria, 39th Extreme Atomic Systems (EAS) Meeting (19.-22.02.2018)
Blättermann, A.:
Strong-field spectroscopy.
Borisova, G. D.:
First results of XUV transient absorption spectroscopy in the ionization continuum of molecular hydrogen.
Harth, A.:
Attosecond timing with spectral resolution near resonances.
Ott, C.:
XUV-only nonlinear wave mixing and absorption spectroscopy.
Pfeifer, T.:
The transition from simple to complex strong-field quantum dynamics among bound states in the time domain.
Cavaletto, S. M.:
Reconstruction of strong-field-excited systems for deterministic quantum control.
Heeg, K. P.:
Controlling Excitation Dynamics of Mössbauer Nuclei.
Oreshkina, N. S.:
Fine and hyperfine structure of heavy muonic atoms.
- Rome, Italy, 15th Marcel Grossmann Meeting (MG15) (01.-07.07.2018)
Tamburini, M.:
Giant Collimated Gamma-Ray Flashes.
Implementing Nonlinear Compton Scattering Beyond the Local Constant Field Approximation.
- Rome, Italy, 7th Roma International Conference on Astroparticle Physics RICAP 18 (04.-07.09.2018)
Schoorlemmer, H. on behalf of the HAWC collaboration:
The HAWC gamma-ray observatory: Results and Prospects.
Aharonian, F.:
Cosmic Ray PeVatrons: young stars versus dead stars.
- Rome, Italy, ASI, AGILE 16th Science Workshop (18.05.2018)
Aharonian, F.:
On the Importance of Morphological Studies to Reveal the Cosmic Ray Accelerators.
- Rome, Italy, International Conference on Classical and quantum plasmas: matter under extreme conditions (05.-06.04.2018)
Di Piazza, A.:
Quantum electrodynamic processes in plasmas.
- Rome, Italy, PHAROS Workshop (24.-26.03.2018)
Zanin, R.:
tMSPs: perspectives for CTA.
- Salamanca, Spain, International Meeting on Fundamental Physics (IMFP18) (09.-13.04.2018)
Lindner, M.:
Summary of direct searches for dark matter.
- Santander, Spain, Dark Matter 2018 (25.-29.06.2018)
Cichon, D.:
New results from the XENON1T experiment.
Hasterok, C.:
Direct Searches for Dark Matter with Noble Liquids.

- Sarajevo, Bosnia and Herzegovina, ROOT User's workshop (10.-13.09.2018)
Dembinski, H.:
User feedback from LHCb.
- Seoul, Korea, 8th KIAS workshop on Particle physics and Cosmology (29.10.-02.11.2018)
Smirnov, A. Y.:
Collective oscillations of supernova neutrinos.
- Shanghai, China, The 14th International Conference on Electronic Spectroscopy and Structure (ICES-14) (07.-12.10.2018)
Ott, C.:
State-resolved bound-electron dynamics in strong fields
- Shanghai, Republic of China, International Symposium on Light-Driven Dynamics, East China Normal University (07.-08.11.2019)
Pfeifer, T.:
Dynamics of excited states driven by Strong Laser fields.
Moshhammer, R.:
Reaction Microscope experiments with short-pulse Lasers.
- Shangsha, China, 5th International Symposium on Laser Interaction with Matter (LIMIS 2018) (11.-13.11.2018)
Li, J.-X.:
Determination of the carrier-envelope phase of PW laser pulses.
- Singapore, Julian Schwinger Centennial Conference (07.-12.02.2018)
Blaum, K.:
Precision tests of QED with stored and cooled highly charged ions.
- Singapore, NTU New Frontiers - Particles and Cosmology (05.-09.03.2018)
Lindner, M.:
Conformal Extensions of the Standard Model.
- Snowbird, Utah, USA, 48th Winter Colloquium on the Physics of Quantum Electronics (PQE-2018) (07.-12.01.2018)
Evers, J.:
Sudden shifts sharpen x-ray pulses.
Gontijo Campos, A.:
Unveiling new analytical solutions to the Dirac equation.
Kong, X.:
From electromagnetically induced transparency to Autler-Townes splitting with x-rays.
Liao, W.-T.:
Generation of short hard X-ray pulses of tailored duration using a Mössbauer source.
Pfeifer, T.:
The time-domain response of autoionization and strong-field ionization.
- St. Petersburg, Russia, Ioffe Institute's Research Council meeting (03.11.2018)
Aharonian, F.:
Exploring Nonthermal Universe with Gamma Rays.
- Stony Brook, NY USA, CFNS workshop on Forward Physics and Instrumentation from Colliders to Cosmic Rays (17.-19.10.2018)
Dembinski, H.:
Proton-oxygen collisions at the LHC.
- Strasbourg, France, GdR Neutrino Meeting (05.-06.10.2018)
Akhmedov, E.:
Coherent scattering and macroscopic coherence: Implications for neutrino, DM and axion detection.
- Szeged, Hungary, ELI Summer School 2018 (27.-31.08.2018)
Di Piazza, A.:
High-energy QED (vacuum-polarization effects in intense laser beams) (invited lecture).
- Szeged, Hungary, EUCALL Joint Foresight Topical Workshop (01.-05.07.2018)
Di Piazza, A.:
Strong-field classical and quantum electrodynamics in intense laser fields.
- Tallinn, Estonia, PACTS 2018: Particle, Astroparticle and Cosmology Tallinn Symposium (18.-22.06.2018)
Lindner, M.:
Conformal Extensions of the Standard Model.
- Tempe, AZ, USA, CXFEL Workshop: Attosecond electron dynamics to chemical physics (05.-06.02.2018)
Pfeifer, T.:
Fundamental quantum dynamics in the time domain: Nonlinear spectroscopy and dynamical imaging of atoms and small molecules at FELs.

- Tirupati, India, 7th Topical Conference of the Indian Society of Atomic and Molecular Physics (06.-08.01.2018)
Wolf, A.:
Fast Ion Beams in a Cryogenic Storage Ring: Collisions and Internal Excitations.
- Tokyo, Japan, Higgs Couplings (26.-30.11.2018)
Tenorth, V.T.:
Dark Matter EFT with Extended Scalar Sector.
- Traverse City, Michigan, USA, Trapped Charged Particles and Fundamental Physics, TCP2018 (30.09.-05.10.2018)
Köhler-Langes, F.:
Stringent Tests of Bound-State QED.
Wolf, A.:
The Heidelberg Cryogenic Storage Ring CSR – Rotational Cooling and Electron Collisions of Molecular Ions.
- Trento, Italy, Determination of the absolute electron (anti-)neutrino mass (26.-30.03.2018)
Rodejohann, W.:
Importance of Neutrino Mass (Experiments).
- Trento, Italy, ECT* 25th Anniversary (31.08.2019)
Schwenk, A.:
From fundamental interactions to structure and stars.
- Trento, Italy, ECT* Workshop “Exploring the role of electro-weak currents in Atomic Nuclei” (23.-27.04.2018)
Blaum, K.:
Precision Penning-trap measurements for fundamental studies.
Schwenk, A.:
Effects of many-body currents in dark matter detection and WIMP-nucleus scattering.
- Trento, Italy, ECT* Workshop “New ideas in constraining nuclear forces”, Trento, Italy (05.06.2018)
Schwenk, A.:
Status and challenges of chiral EFT calculations of nuclei and dense matter.
- Trento, Italy, ECT*, Determination of the absolute electron (anti-)neutrino mass (26.-30.03.2018)
Eliseev, S.:
Penning Trap measurements to support direct neutrino mass determination: The case of H-3 and Ho-163.
- Trieste, Italy, ICTP Advanced workshop “Physics of Atmospheric Neutrinos” (PANE-2018) (28.05.-01.06.2018)
Smirnov, A. Y.:
Phenomenology of atmospheric neutrino oscillations.
- Trieste, Italy, Winter College on Extreme Non-linear Optics, Attosecond Science and High-field Physics (05.-16.02.2018)
Di Piazza, A.:
Radiation and radiation reaction in classical electrodynamics.
Radiation and radiation reaction in quantum electrodynamics.
- Tsukuba, Japan, KEK-PH winter 2018 (04.-07.12.2018)
Tenorth, V.T.:
Extended Dark Matter EFT.
- Valencia, Spain, The quest for new physics (12.2018)
Xu, X.:
Searching for new physics in coherent neutrino scattering.
- Vancouver, Canada, TRIUMF 50th Anniversary Symposium (17.07.2018)
Schwenk, A.:
Always at the forefront - from NN experiments to ab initio theory.
- Vulcano Island, Italy, VULCANO Workshop 2018 (20.-26.05.2018)
Aharonian, F.:
The connection between gamma-rays and cosmic rays.
- Wien, Austria, DISCRETE 2018 (26.-30.11.2018)
Trautner, A.:
On the CP-odd basis invariants of the 2HDM.
- Wien, Austria, International Atomic Energy Agency: Workshop Atomic Data (17.-21.11.2018)
Crespo López-Urrutia, J. R.:
Reliable atomic data for fusion research and astrophysics: Benchmarking calculations for highly charged ions.
- Wien, Austria, Meeting of IAEA Experimentalists' Network on Atomic and Molecular Data (19.-21.11.1018)
Wolf, A.:
Electron–Ion Collision Experiments in Storage Rings: Cross Section Data and Fundamental Understanding.

Wien, Austria, PSAS 2018 (14.-18.05.2018)

Mooser, A.:

A new Experiment to measure the g-Factors of $^3\text{He}^+$ and $^3\text{He}^{2+}$.

Wuhan, PR China, Workshop HCI III „Precision Physics Based on Highly Charged Ions III and Topic Discussions on Precision Measurements” (23.04.2018)

Crespo López-Urrutia, J. R.:

Cold highly charged ions for frequency metrology.

Würzburg, Germany, DPG Spring meeting (19.-23.03.2018)

Almazan, H.:

The STEREO Experiment: the Search for eV Sterile Neutrinos.

Eurin, G.

Radon mitigation for rare-event searches using surface treatments.

Hasterok, C.:

Latest Dark Matter Results of XENON1T.

Rink, T.:

CONUS - A new experiment to measure coherent elastic neutrino nucleus scattering at reactor site.

Roca, C.:

Calibration of the STEREO Experiment.

Tenorth, V.T.:

Extended Dark Matter EFT.

Zürich, Switzerland, PPC2018 (08.2018)

Marrodán Undagoitia, T.:

Dark matter searches with liquid xenon detectors.

At Other Institutes

Arcadi, G:

From Simplified to Gauge Invariant Realizations of a light Pseudoscalar Portal.

Laboratori Nazionali di Frascati, Italy (12.11.2018)

WIMP Dark Matter: from Simplified to more Realistic Models.

ITP Heidelberg, Germany (17.05.2018)

Evading Dark Matter Direct Detection through light mediators and extended Dark Sectors.

ITP Heidelberg, Germany (08.05.2018)

Bhadoria, S.:

Laser-driven shock-acceleration of ions in collisional and ultra-relativistic regime.

Darmstadt, Germany, GSI Helmholtz Centre for Heavy Ion Research, Atomic Physics Seminar GSI (04.07.2018)

Blaum, K.:

Precision Experiments with Stored and Cooled Ions, Open Academy Lecture.

Royal Swedish Academy of Sciences, Stockholm, Sweden (21.02.2018)

Precision Experiments with Stored and Cooled Ions.

Allgemeines Physikalisches Kolloquium, Westfälische Wilhelms-Universität Münster, Germany (19.04.2018)

Physikalisches Kolloquium, Technische Universität Dresden, Germany (19.06.2018)

Physikalisches Kolloquium, Johann Wolfgang Goethe-Universität Frankfurt, Frankfurt am Main, Germany (20.06.2018)

Rydberg Lecture 2018: Physics with Penning traps towards the precision limit.

Rydberg Lecture Hall, Physics Department, Lund University, Sweden (10.10.2018)

Physics with Penning traps towards the precision limit.

Nuclear Science Seminar, National Superconducting Cyclotron Laboratory (NSCL), Michigan State University, USA (31.10.2018)

Physics Seminar, Hefei National Laboratory for Physical Sciences at the Microscale, Hefei, China (26.11.2018)

Brdar, V.:

Neutrino Masses, Dark Matter and Leptogenesis with sub-TeV New Physics.

Karlsruhe, Germany, Theory Group Seminar at KIT (25.07.2018)

Buck, C.:

Recent results from the Stereo experiment.

Heidelberg, Germany, Teilchenkolloquium (10.07.2018)

Celli, S.:

Propagation and radiation of accelerated particles in young supernova remnants

Adelaide, Australia, University of Adelaide, Astrophysics Seminar (27.11.2018)

Crespo López-Urrutia, J. R.:

Cold highly charged ions as spectroscopic probes of fundamental interactions.

Vienna, Austria, TU Wien, Institute of Applied Physics (06.03.2018)

How to make, trap and observe microscopic star plasmas in the laboratory, and use them as clocks.

Heidelberg, Germany, Max Planck Institute für Astronomy (13.04.2018)

Ultimate astrophysical ions for ultra-precise atomic clocks.

Shanghai, PR China, Institute of Modern Physics (27.04.2018)

Spectroscopy of highly charged ions.

Braunschweig, Germany, Kick-off meeting CC4C Network (20.06.2018)

Debierre, V.:

Hydrogen-like systems from low to high Z: van der Waals interactions and the bound electron g-factor.

Paris, France, Laboratoire Kastler-Brossel, Séminaire général du Laboratoire Kastler-Brossel (09.10.2018)

Eurin, G.:

Latest results from XENON1T and future prospects for XENONnT.

University of Edinburgh, Experimental Particle Physics seminar (26.10.2018)

Giacinti, G.:

Cosmic-Rays and Gamma-Rays as Probes of the Interstellar Turbulence.

Montpellier, France, LUPM Laboratory, Montpellier University, Seminar (15.02.2018)

Goertz, F.:

All Scalars from one Source: Axiflavor-Higgs Unification.

University Mainz, Germany, Theorie-Palaver (16.10.2018)

Extended Dark Matter EFT.

Bad Honnef, Germany, New Physics at the LHC Research Group Meeting (02.10.2018)

Composite Higgs theory.

Obergurgl, Austria, Third Alpine LHC Physics Summit (20.04.2018)

Higgs EFT 2018.

Mainz, Germany, Extended Dark Matter EFT (17.04.2018)

Open questions of the standard model.

University Heidelberg, Germany, Colliding Pizza Seminar (08.01.2018)

Grieser, M.:

The Cryogenic Storage Ring CSR.

Seminar, Forschungszentrum Jülich, Jülich, Germany (25.01.2018)

Accelerator Seminar, GSI Darmstadt, Darmstadt, Germany (15.02.2018)

Stored Ion Beam Experiments in AMO Physics: From Highly Charged Ions to Molecules.

Inter-University Accelerator Centre (IUAC), New Delhi, India (10.01.2018)

Molecular Interactions in Dilute Media studied with Fast Ion Beams in the Heidelberg Cryogenic Storage Ring.

Astronomical Colloquium der Universität Heidelberg (05.06.2018)

The Heidelberg Cryogenic Storage Ring CSR: Rotational Cooling and Electron Collisions of Molecular Ions.

HIC for FAIR Colloquium, Universität Gießen (21.11.2018)

Harth, A.:

Attosecond timing with spectral resolution: what comes next?

Zürich, Switzerland, Seminar ETH Zürich (09.04.2018)

Hasterok, C.:

The XENON Dark Matter Project: Current Status and Future Prospects.

Mainz, Germany, Astroparticle Physics in Germany (18.09.2018)

Heeg, K. P.:

Cavity QED and coherent control of nuclear resonances with hard x-rays.

Innsbruck, Austria, Institut für Theoretische Physik (Universität Innsbruck), Seminar talk (14.08.2018)

X-ray quantum optics with nuclear resonances.

Jena, Germany, Helmholtz Institute Jena, Theoretical Atomic Physics Group Seminar (22.05.2018)

Hofmann, W.:

Der Himmel über Namibia in einem neuen Licht: Astronomie mit Gammastrahlen.

Heidelberg, Germany, Eröffnungsvortrag MPG Jahreshauptversammlung (12.06.2018)

The Galaxy viewed in very high energy gamma rays.

Zürich, Switzerland, Schrödinger Kolloquium (26.03.2018)

Darmstadt, GSI, Kolloquium (29.05.2018)

Jardin-Blicq, A.:

A HAWC view of the multi-TeV sky.

Padova, Italy, INFN, seminar talk (16.07.2018)

Keitel, C. H.:

Extremely high-intensity laser interactions with fundamental quantum systems.

Hamburg, Germany, Deutsches Elektronen-Synchrotron (DESY), Particle and Astroparticle Physics Colloquium, also integrated as plenary talk in the Workshop on "Probing strong-field QED in electron-photon interactions" (21.08.2018)

Kirk, J.G.:

Inductive particle acceleration.

Garching, Munich Institute for Astro- and Particle Physics (15.03.2018)

Gamma-ray flares from pulsar wind nebulae.

Jerusalem, Israel, Racah Institute of Physics (01.05.2018)

Pulsar winds.

University of Heidelberg, Joint Astronomical Colloquium (26.06.2018)

Kong, X.:

From electromagnetically induced transparency to Autler-Townes splitting with x-rays.

Menlo Park, California, USA, SLAC National Accelerator Laboratory, Photon Science Seminar (22.01.2018)

College Station, Texas, USA, Texas A&M University, seminar (16.01.2018)

Kumar, N.:

Particle acceleration and short-wavelength radiation generation in plasmas.

Amsterdam, Netherlands, Advanced Research Center for Nanolithography, Seminar (01.08.2018)

Lentrod, D. S.:

Effective few-mode theories for ab-initio cavity QED.

Vienna, Austria, Institute for Theoretical Physics, Vienna University of Technology, Seminar for Theoretical Physics (07.11.2018)

Lindner, M.:

Direct detection of dark matter.

Colorado Springs, Colloquium at USAFA (01.11.2018)

Universität Würzburg, Kolloquium (05.02.2018)

Erfolgreicher Nachweis von kohärenten Neutrinos im Kernkraftwerk Brokdorf.

Kerntechnische Gesellschaft (KTG) - Sektion NORD (17.10.2018)

Results from XENON1T and outlook on XENONnT.

Gran Sasso Laboratory, Assergi, Italy (01.10.2018)

Helles Licht und dunkle Teilchen.

DAI Heidelberg (10.09.2018)

The XENON Dark Matter Search: Status and Prospects.

Kolloquium am Karlsruhe Institute of Technology (06.07.2018)

Is the WIMP paradigm going strong?

Heidelberg University (03.04.-06.04.2018)

Neutrinos: Vom Geisterteilchen zur Anwendung.

AKW Brokdorf (12.03.2018)

Michel, N.:

Status of theoretical calculations.

Villigen, Switzerland, Paul Scherrer Institut, MuX Collaboration Meeting (05.11.2018)

Hyperfine structure of heavy muonic atoms.

Villigen, Switzerland, Paul Scherrer Institute, Particle Theory Seminar (14.03.2018)

Mooser, A.:

A New Experiment for the measurement of the g-Factor of $^3\text{He}^{2+}$.

Colloquium at KEK/J-Parc, Tokai, Japan (14.12.2018)

Moshhammer, R.:

COLTRIMS Experiments with Lasers.

Mainz, Germany (25.09.2019)

Oreshkina, N. S.:

Fine and Hyperfine Structure of Heavy Muonic Atoms: Towards the determination of nuclear parameters.

Jena, Germany, Helmholtz Institute Jena, Institute's Seminar (24.10.2018)

Search for the variation of fundamental constants in highly charged ions.

Mainz, Germany, Helmholtz Institute Mainz, Matter-AntiMatter Asymmetry Section Seminar (29.06.2018)

Ott, C.:

Multi-electron quantum dynamics in weak and strong fields.

Darmstadt, Germany, GSI, Atomphysik Seminar (25.4.2018)

Resonant nonlinear ultrafast dynamics in atoms and molecules driven by an intense XUV free-electron laser.

Orlando (FL), USA, CREOL University of Central Florida, Special Seminar (22.6.2018)

Pálffy-Buß, A.:

Quantum control and dynamics with x-rays.

Erlangen, Germany, Friedrich-Alexander-Universität Erlangen-Nürnberg, Physics Colloquium (19.12.2018)

Hamburg, Germany, Max Planck Institute for the Structure and Dynamics of Matter, Physics Seminar (06.06.2018)

Coherent light interacting with nuclei: from ultraviolet to gamma rays.

Stavanger, Norway, University of Stavanger, Physics Seminar (27.09.2018)

Towards a nuclear clock with ^{229}Th .

Braunschweig, Germany, Technische Universität Braunschweig, Physics Colloquium (19.06.2018)

^{229}Th electronic bridge in VUV-transparent crystals.

Vienna, Austria, Atominstitut Technische Universität Wien, Seminar (20.02.2018)

Pfeifer, T.:

Listening to the ultrafast chat of two excited electrons — And asking them some quick Physics questions.

Aarhus, The Netherlands, Physics Colloquium Aarhus University (24.10.2018)

Hamburg, Germany, DESY Photon Science Colloquium (30.11.2018)

Quantum Dynamics and its Control with Strong Laser Fields Seminar.

Shanghai, Republic of China, ECNU (04.11.2018)

Schmelling, M.:

Physics Highlights from the LHCb Experiment.

Garching, Germany, IPP Institutskolloquium (27.04.2018)

- Schnorr, K.:**
Imaging Strong-Field Induced Dynamics in C60 via X-Ray Scattering.
 Hamburg, Germany, DESY (24.05.2018)
- Sikora, B.:**
High-precision theory of the g-factor of bound fermions.
 Jena, Germany, Helmholtz Institute Jena, Internal Group Seminar, Theoretical Atomic Physics Group (16.10.2018)
- Simgen, H.:**
Results from the direct search for dark matter with the XENON1T experiment.
 Heidelberg University, Teilchenkolloquium (17.07.2018)
- Smirnov, A. Y.:**
Strange effects in neutrino oscillations.
 Suwon, Korea, Seminar at Sungkyunkwan University (23.10.2018)
 Daejeon, Korea, Seminar at CTPU (19.10.2018)
 Copenhagen, Denmark, Colloquium Niels Bohr Institute (03.03.2018)
Neutrino mixing via the neutrino portal.
 Seoul, Korea, Seminar at KIAS (16.10.2018)
- Tenorth, V.T.:**
Extended Dark Matter EFT(s).
 Osaka, Japan, Particle Physics Theory Seminar (03.12.2018)
- Trautner, A.:**
CP violation as a consequence of another Symmetry.
 Heidelberg, Germany, Teilchentee, seminar joint with MPIK at Heidelberg University (25.10.2018)
- Vogl, S.:**
FIMPs and friends: Probing dark matter with long-lived particles at the LHC.
 Hamburg, Germany, DESY, Theory Seminar (23.04.2018)
- Xu, X.:**
BSM physics in neutrino scattering.
 Blacksburg, USA, Virginia Tech (08.2018)
 University of Maryland, College Park, USA (08.2018)
 Bari, Italy, INFN (04.2018)
Supernova neutrino triangulation.
 Columbus, USA, Ohio State University (08.2018)
Coherent neutrino scattering.
 Beijing, China, Tsinghua University (07.2018)
 Beijing, China, Institute of High Energy Physics (07.2018)
- Zanin, R.:**
Gamma-ray emission from pulsars and their environments: an experimental perspective.
 Dwingeloo, NL, ASTRON, Colloquium (05.07.2018)

Invited Talks 2019

At Conferences and Symposia

Aachen, Deutsche Physikalische Gesellschaft (DPG) Frühjahrstagung (25.-29.03.2019)

Hasterok, C.:

The XENON Dark Matter Project: Latest Results and Future Prospects.

Maneschg, W:

Recent developments in low energy neutrino physics: chances and challenges.

Roca, C.:

The Search for eV Sterile Neutrinos with the STEREO Experiment.

Adelaide, Australia, CTA Linkages in Australia Workshop (28.-29.11.2019)

Celli, S.:

Particle escape from middle-aged SNRs and related gamma-ray emission.

Alberta, Canada, Lake Louise Winter Institute 2019, Lake Louise (13.02.2019)

Blaum, Klaus:

What can one learn from precise atomic measurements in Penning traps?

Ameland Island, The Netherlands, 2nd Summer School: Search for new physics with low-energy precision tests (16.-21.06.2019)

Crespo López-Urrutia, J. R.:

Lecture series on highly charged ions.

Amsterdam, Netherlands, International Workshop on EUV and Soft X-ray Sources, ARCNL (08.11.2016)

Crespo López-Urrutia, J.R.:

Charge-state resolving analysis of EUV spectra using electron beam ion traps.

Amsterdam, Netherlands, Meeting of the "Higgs as probe and portal" group at NIKHEF (24.05.2019)

Helmboldt, A.:

Conformal realization of the neutrino option and gravitational waves.

Ann Arbor, Michigan, USA, PIMKIO Workshop, University of Michigan (07.03.2019)

Trautner, A.:

Cold cosmic neutrinos and the expansion history of the Universe.

Bad Honnef, Germany, 698. WE-Heraeus-Seminar "Massive Neutrinos" (08.-11.07.2019)

Eliseev, S.:

Penning-Trap Mass Spectrometry (PENTATRAP) and Neutrino Mass (ECHO Project).

Marrodán Undagoitia, T.:

Neutrino astrophysics in liquid xenon detectors.

Rodejohann, W.:

Neutrino Mass and Lepton Mixing.

Bad Honnef, Germany, 705. WE-Heraeus-Seminar "Frontier on Size-Selected Cluster Research: Bridging the Gap" (29.09.-04.10.2019)

Wolf, A.:

Molecular and Cluster Ions in a Cryogenic Storage Ring – from internal cooling to merged beams.

Bad Honnef, Germany, German Astroparticle Community Meeting, 6. KAT Strategietreffen (05.-06.12.2019)

Hinton, J.A.:

The Southern Wide-Field Gamma-ray Observatory.

Bad Honnef, Germany, WEH School on Plasma Astroparticle Physics 2019 (21.-25.01.2019)

Schmelling, M.:

Heavy Quark Physics with LHCb.

Barcelona, Spain, HEPRO VII conference (09.-12.07.2019)

Zanin, R.:

The Crab flares: lessons learnt and future perspectives.

- Bari, Italy, 27th International Workshop in Weak Interactions and Neutrinos (WIN2019) (02.-08.06.2019)
Bischer, I.:
General Neutrino Interactions from an Effective Field Theory perspective.
Lindner, M.:
Invited summary and outlook talk.
Rink, T.:
CONUS - Detecting elastic neutrino nucleus scattering in the fully coherent regime with reactor neutrinos. Leptogenesis and low-energy CP violation in a type-II-dominated left-right seesaw model.
Roca, C.:
The Search of eV Sterile Neutrinos with the STEREO Experiment.
Rodejohann, W.:
Neutrino Physics: Theory.
- Berlin, Germany, 23. Physikerinnentagung. Frauen in der Physik: Forschung, Karrierewege und Profilierung (14.-17.11.2019)
Pálffy-BuB, A.:
Where atomic nuclei meet quantum optics and metrology. (plenary talk)
- Berlin, Germany, THOR workshop (07.07.2019)
Zanin, R.:
The interstellar medium from the perspective of the gamma-ray community.
- Berlin, Germany, WE-Heraeus-Symposium "Measurements at the Limit" (07.11.2019)
Blaum, K.:
High-precision atomic mass measurements.
- Blois, France, Rencontres de Blois (02.-07.06.2019)
Schoppmann, S.:
Search for eV Sterile Neutrinos – The Stereo Experiment.
- Bologna, Italy, CTA Symposium (06.-09.05.2019)
Hofmann, W.:
CTA – Setting the stage.
Ruiz Velasco, E.L.:
Discovery of Late-Time Very High Energy Emission from a Gamma-ray Burst Afterglow.
- Brussels, Belgium, Solvay Workshop "New Frontiers in Atomic, Nuclear, Plasma and Astrophysics" (26.11.2019)
Schwenk, A.:
Nuclei and matter: From fundamental interactions to structure and stars.
- Dalian, China, International Conference on the Applications of the Mössbauer Effect (31.08.-06.09.2019)
Evers, J.:
X-ray quantum optics with Mössbauer nuclei.
- Darmstadt, Germany, EMMI Physics Days 2019 (19.11.2019)
Arapoglou, I.:
The ALPHATRAP g-factor experiment: testing bound-state QED using highly-charged ions.
- Darmstadt, Germany, Workshop on the design and optimization of low energy ion and antiproton facilities, GSI, Darmstadt (06.02.2019)
Grieser, M.:
The Cryogenic Storage ring CSR.
- Deauville, France, The XXXIst International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC) (23.-30.07.2019)
Ren, X.:
Observation of intermolecular Coulombic decay (ICD) in water-tetrahydrofuran induced by electron-impact.
Wolf, A.:
Rotational level specific dissociative recombination rate constants measured in a cryogenic storage ring.
- Dolní Břežany, Czech Republic, ELI User Workshop on Laser Wakefield Acceleration and Applications (24.-25.10.2019)
Tamburini, M.:
Polarized laser-wakefield-accelerated kiloampere electron beams.
- Dolní Břežany, Czech Republic, The 3rd International Conference on Extreme Light 2019 (ICEL 2019) (21.-25.10.2019)
Tamburini, M.:
QED beyond the local field approximation in extreme laser pulses.
- Dolní Břežany, Czech Republic, Workshop: Science with coherent XUV sources at ELI Beamlines (06.-07.05.2019)
Ott, C.:
Nonlinear XUV-excited-state electron dynamics in rare gas atoms.

- Dubai, United Arab Emirates, Global Scientific Event on Atomic, Molecular, and Optical Physics (GSEAMO-2019) (17.-18.06.2019)
Wen, M.:
Electron acceleration by radially-polarized laser pulses in plasma micro-channels and from solid wires. (hot topic)
- Erice, Italy, International School of Nuclear Physics (16.-24.09.2019)
Schwingenheuer, B.:
Search for neutrinoless double beta decay of ^{76}Ge with the GERDA experiment.
- Erice, Sicily, Italy, Workshop on "Star Mergers, Dark Matter, Neutrinos in Nuclear, Particle and Astro-Physics and in Cosmology" (16.-24.09.2019)
Lindner, M.:
Coherent neutrino scattering.
- Florence, Italy, European conference on atomic and molecular physics, ECAMP 13 (08.-12.04.2019)
Moshhammer, R.:
AMO-Experiments with Reaction Microscopes at FLASH. (plenary talk)
- Frankfurt, Germany, Wilhelm und Else Heraeus Seminar #702: Otto Stern's Molecular Beam Research and its Impact on Science (03.09.2019)
Blaum, K.:
Precision Physics in Penning Traps Using the Continuous Stern-Gerlach-Effect.
- Fukuoka, Japan, Meeting of the Physical Society of Japan (14.03.2019)
Hofmann, W.:
The Cherenkov Telescope Array.
- Gaithersburg, Maryland, USA, 20th International Conference on Atomic Processes in Plasmas (09.-12.04.2019)
Harman, Z.:
Narrow-band hard-x-ray lasing with highly charged ions.
- Garching, Germany, ESO Workshop "The Very Large Telescope in 2030" (17.-20.06.2019)
Hofmann, W.:
Gamma-ray astronomy in the energy range of few 10^{10} eV to few 10^{14} eV.
- Garching, Germany, Workshop on Gravity, Information and Fundamental Symmetries (11.2019)
Marrodán Undagoitia, T.:
Dark Matter and neutrino physics with liquid xenon detectors.
- Geneva, Switzerland, CERN Theory BSM Forum (31.01.2019)
Brdar, V.:
Low Scale Left-Right Symmetry and Naturally Small Neutrino Mass.
- Geneva, Switzerland, ISOLDE-EPIC Workshop at CERN, 03.12.2019
Grieser, M.:
A new ISOLDE storage ring - ISR.
- Geneva, Switzerland, Workshop on Scale Invariance in Particle Physics and Cosmology (28.01.-01.02.2019)
Brdar, V.:
The Conformal Realization of the Neutrino Option and its Gravitational Wave Signature.
Helmboldt, A.:
Conformal realization of the neutrino option and gravitational waves.
Lindner, M.:
Conformal extensions of the standard model.
- Glasgow, UK, INPC 2019, 27th International Nuclear Physics Conference (01.08.2019)
Blaum, K.:
Novel measurement techniques in precision mass spectrometry of rare nuclides.
- Granada, Spain, 22nd Planck conference (03.-07.06.2019)
Trautner, A.:
Vector-like chiral" 4th family to explain $(g - 2)$ and $b \rightarrow s\mu\mu$.

Gyeongju, Republic of Korea, LPhys'19 – The 28th Annual International Laser Physics Workshop (08.-12.07.2019)

Ott, C.:

*Nonlinear XUV absorption spectroscopy with a free-electron laser.
Attosecond Time Delays in Resonant Photoexcitation.*

Stooß, V.:

From Absorption Spectra to the Strong-Field Driven Dipole Response.

Chen, Y.:

Polarized positron beams via intense two-color laser pulses.

Di Piazza, A.:

On the local-constant-field approximation in strong-field QED at low and high energies.

Lentrodt, D. S.:

Coherent X-Ray-Optical Control of Nuclear Dynamics with Zeptosecond Phase-Stability.

Lv, Q.:

The Computational-QFT approach for QED processes in strong laser fields.

Wen, M.:

Polarized Electron Beam Acceleration in Laser Wakefield.

Hamburg, DESY Theory Workshop (24.-27.09.2019)

Doering, C.:

Inelastic dark matter nucleus scattering.

Hamburg, Germany, DESY, Workshop New Scientific Capabilities at European XFEL (25.-27.03.2019)

Moshhammer, R.:

Ultrafast Atomic and Molecular Dynamics – Capabilities at EuXFEL.

Crespo López-Urrutia, J. R.:

70-keV-hard bound-state quantum electrodynamics and soft x-ray purely photo-ionized low-density plasmas at XFEL.

Pfeifer, T.:

Watching and steering electrons with intense optical and free-electron lasers.

Hamburg, Germany, DESY, Workshop Soft x-ray science at PETRA (25.-26.09.2019)

Crespo López-Urrutia, J. R.:

Soft x-rays on radiation-hard ions accurately benchmarking electron-hole theory.

Arcadi, G.:

Accurate relativistic treatment of cosmological evolution of real scalar DM.

Hamburg, Germany, FLASHForward Collaboration and Scientific Advisory Committee Meeting (26.-28.11.2019)

Tamburini, M.:

Polarized wakefield-accelerated kiloampere electron beams.

Hamburg, Germany, New Scientific Capabilities at European XFEL (25.-27.03.2019)

Evers, J.:

Nuclear quantum optics at XFELs.

Hamburg, Germany, Satellite Meeting to the DESY Photon Science Users' Meeting 2019: "Light-Matter Interaction: Recent Advances in Theory" (24.01.2019)

Keitel, C. H.:

Quantum Tunneling Time: How real is it?

Hangzhou, China, 13th International West Lake Symposium on Extreme Radiation Physics (IWLS-ERP19) (04.-06.05.2019)

Li, J.-X.:

Ultrarelativistic electron and positron beams polarization in single-shot interaction with an ultraintense laser pulse and the polarization determination.

Lv, Q.:

The Computational-QFT approach for the Strong-Field QED Processes. (plenary talk)

Tamburini, M.:

Giant collimated gamma-ray flashes.

Wen, M.:

Laser acceleration of spin polarized electron beam. (hot topic)

Hangzhou, China, Symposium on Quantum Computing and Quantum Optics II (24.-26.05.2019)

Evers, J.:

Simulating control fields for nuclear quantum optics using mechanical motion.

Hannover, Germany, Quantum Metrology and Physics beyond the Standard Model (11.-14.06.2019)

Crespo López-Urrutia, J. R.:

Possibilities for BSM physics tests with highly charged ions in the VUV region.

- Heidelberg, Germany, HeKKSaGOn University Alliance – The 7th German-Japanese University Presidents' Conference (12.-13.09.2019)
Ott, C.:
XUV-induced two-electron strong-coupling dynamics in helium.
- Heidelberg, Germany, HeKKSaGOn WG4 Preconference Discussion Meeting (11.09.2019)
Ding, T.:
Transient absorption spectroscopy of neon at FLASH.
- Heidelberg, Germany, Nucar Collaboration Meeting, MPI Kernphysik, (07.03.2019)
Grieser, M.:
New technical ideas for CRYRING.
Kreckel, H.:
Astrochemical studies at the Cryogenic Storage Ring.
- Heidelberg, Germany, PyGamma 2019 Workshop (18.-23.03.2019)
Dembinski, H.:
Python in high-energy physics.
Zanin, R.:
Python and open-data for gamma-ray astronomy.
- Heidelberg, Germany, SFB ISOQUANT PI Meeting 2019 (17.05.2019)
Sturm, S.:
Magnetic moments and electron binding energies in highly charged ions.
- Helsinki, Finland, 7th RISE Collaboration workshop: NonMinimalHiggs (27.-29.05.2019)
Alanne, T.:
Low-scale leptogenesis via extended scalar sectors.
- Jaca, Spain, Low Radioactivity Techniques (LRT) workshop (19.-23.05.2019)
Eurin, G.:
Developments in surface background removal for the DARWIN liquid xenon detector.
Simgen, H.:
Understanding and suppressing radioactive noble gas background in liquid xenon detectors.
- Karlsruhe, Germany, CORSIKA Cosmic Ray Simulation Workshop Karlsruhe (17.-20.6. 2019)
Bernlöhr, K.:
CORSIKA and IACTs - Cherenkov light simulations for Imaging Atmospheric Cherenkov Telescopes.
Dembinski, H.:
Proton-Oxygen collisions at the LHC for air shower research.
- Kitzbühel, Austria, Humboldt-Kolleg-Conference (06.2019)
Marrodán Undagoitia, T.:
Dark matter searches with liquid xenon detectors.
- Kushiro, Hokkaido, Japan, International Symposium on Ultrafast Intense Laser Science (ISUILS2019) (04.-09.08.2019)
Li, J.-X.:
Polarized leptons and Gamma-rays with extreme laser pulses.
- La Thuile, Italy, 53rd Rencontres de Moriond, Electroweak Interactions and Unified Theories (16.-23.03.2019)
Buck, C.:
Latest Results of the CONUS reactor neutrino experiment.
Goertz, F.:
All Scalars from one Source: Axiflavor-Higgs Unification.
- La Thuile, Italy, Les Rencontres de Physique de la Vallée d'Aoste (La Thuile 2018) (25.02.-03.03.2019)
Eurin, G.:
Search for dark matter with the XENON1T detector.
- L'Aquila, Italy; 5th "Cosmic Ray Anisotropy Workshop" (CRA 2019) (07.-11.10.2019)
Giacinti, G.:
Cosmic-Ray Anisotropy and Extended Gamma-Ray Emissions as Probes of Cosmic-Ray Transport.
- Lerici, Italy, NEEC Symposium Time Domain control of atomic shell from nuclear excitation (07.-09.10.2019)
Crespo López-Urrutia, J. R.:
Experimental searches for electronic transitions with strong nuclear couplings in highly charged ions.
Pálffy-BuB, A.:
Nuclear excitation by electron capture - an overview.
- London, UK, Royal Society Meeting, Advances in hydrogen molecular ions: H_3^+ , H_5^+ and beyond (21.01.2019)
Kreckel, H.:
Astrochemical studies at the Cryogenic Storage Ring.

- London, UK, University College London, R-MADAM 2019 (24.-26.06.2019)
Pfeifer, T.:
Intense light–matter interaction: Spectroscopy and control of excited states in strong laser fields.
- Lyon, France, EWASS 2019 (European Week of Astronomy and Space Science) (24.06.2019)
Giacinti, G.:
TeV Cosmic-Rays and Gamma-Rays as Probes of Interstellar Magnetic Fields.
- Madison, WI, USA; 36th International Cosmic Ray Conference (ICRC 2019) (24.07.-01.08.2019)
Giacinti, G.:
Gamma-Ray Insights into Cosmic-Ray Transport.
- Madrid, Spain, Baryon and Lepton Number Violation 2019 (21.-24.10.2019)
Blasi, S.:
Axions and Lepton Flavor Violation.
- Madrid, Spain, NANOCOSMOS meeting: Energetic Processing of Large Molecules, EpoLM-4 (04.-06.03.2019)
Wolf, A.:
Rotational Cooling and Electron Collisions of Molecular Ions at the Heidelberg Cryogenic Storage Ring CSR.
- Mainz, Germany, MITP workshop “Indirect Searches for New Physics Across the Scales” (01.06.2019)
Brdar, V.:
Dark Matter Models with X-ray and gamma-ray signatures.
- Mainz, Germany, Nuclear Physics in Astrophysics IX (19.09.2019)
Schwenk, A.:
The nuclear chart and equation of state from nuclear forces.
- Mainz, Germany, PLATAN 2019, International Conference Merger of the Poznan Meeting on Lasers and Trapping Devices in Atomic Nuclei Research and the International Conference on Laser Probing, Helmholtz Institute Mainz, Johannes Gutenberg University (24.05.2019)
Blaum, K.:
Amazing progress in the field of lasers (probing) and trapping. (concluding Talk)
Mooser, A.:
A new Experiment to measure the g-Factors of $^3\text{He}^+$ and $^3\text{He}^{2+}$.
- Manchester, SKA Global Headquarters, UK, A Centenary of Astrophysical Jets: Observation, Theory, and Future Prospects (23.-26.07.2019)
Hinton, J.A.:
TeV Gamma-rays from jets.
- Manchester, UK, XXV International symposium PASCOS 2019 (01.-05.07.2019)
Smirnov, A. Y.:
Neutrinos: Theory and Experiment.
- Menlo Park, California, USA, Physics Opportunities at a Lepton Collider in the Fully Nonperturbative QED Regime Workshop (07.-09.08.2019)
Di Piazza, A.:
Perturbation theory in strong field QED.
Tamburini, M.:
Strong-field QED simulations beyond the local constant field approximation.
- Metz, France, 20th International Symposium on Correlation, Polarization and Ionization in Atomic and Molecular Collisions (COPIAMC) (01.-03.08.2019)
Ott, C.:
Nonlinear XUV absorption spectroscopy of excited-state electron dynamics in atoms.
Ren, X.:
Water acts as a catalyst for electron-driven chemical reaction in biochemically relevant hydrogen-bonded systems.
- Milan, Italy, 46th European Physical Society Conference on Plasma Physics (EPS 2019) (08.-12.07.2019)
Tamburini, M.:
Giant collimated gamma-ray flashes.
- Milan, Italy, EPS DPP satellite workshop on High-Field Laser-Plasma Interaction (HFLPI 2019) (13.07.2019)
Podszus, T.:
High-energy behavior of strong-field QED in an intense plane-wave.
- Milwaukee, USA, Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics (DAMOP), (27.-31.05.2019)
Dorn, A.:
Electron Impact Ionization and Fragmentation of Biochemically Relevant Molecules: Hydration Dependence.

- Montpellier, France; CFRCOS2: Deuxième atelier de la communauté française du rayonnement cosmique" conference (13.-15.11.2019)
Giacinti, G.:
Theory of cosmic ray propagation in the interstellar medium. (review talk)
- Moorea, French Polynesia, PACIFIC 2019 (01.-06.09.2019)
Lindner, M.:
Conformal extensions of the Standard Model.
- Moscow, Russia, 19th Lomonosov Conference on Elementary Particle Physics (22.-28.09.2019)
Akhmedov, E.:
Relic neutrino detection through angular correlations in inverse beta-decay.
- Moscow, Russia, International Symposium on Cosmic Ray and Astrophysics, IS CRA 2019 (25.-28.06.2019)
Dembinski, H.:
The Muon Puzzle in high-energy showers.
- Moscow, Russia, RAS Workshop "Future High Energy Gamma Ray Missions" (16.-20.09.2019)
Aharonian, F.:
GeV Astronomy with ground-based detectors.
- München, Germany, Conference IPP MPI for Plasma Physics (20.-22.11.2019)
Reville, B.:
Non-thermal particles in selected astrophysical plasmas.
- München, Germany, DPG Spring Meeting (Section HK) (17.-22.03.2019)
Pálffy-BuB, A.:
Where nuclear physics meets quantum optics. (plenary talk)
- München, Germany, DPG-Frühjahrstagung 2019 (17.-22.03.2019)
Cichon, D.:
Studying the impact of radon daughter removal techniques on xenon purity.
- München, Germany, Symposium "Nucleosynthesis for a Life" (08.02.2019)
Aharonian, F.:
Nuclear gamma-rays from hot accretion flows.
- New Dehli, Int. Conference on Atomic Molecular Optical and Nanophysics with Applications, CAMNP 2019 (16.-20.12.2019)
Sturm, S.:
Probing strong field quantum electrodynamics with trapped highly charged ions.
- New Delhi, Workshop on Physics with Trapped Charged Particles (WPTCP-2019) (21.12.2019)
Sturm, S.:
Probing the standard model with high precision measurements on trapped ions.
- Newport, RI, USA, GRC Atomic Physics 2019 (12.06.2019)
Sturm, S.:
QED Tests in Strong Fields and Fundamental Constants from Precision Measurements on Highly Charged Ions.
- Nice, France; "Semaine de la SF2A 2019" Meeting (14.-17.05.2019)
Giacinti, G.:
Electron Acceleration in the Crab Nebula.
- Nizhny Novgorod, Russia, VII International Conference "Frontiers of Nonlinear Physics" (FNP 2019) (28.06.-04.07.2019)
Evers, J.:
X-ray quantum optics with Mössbauer nuclei.
Keitel, C. H.:
Ultra relativistic quantum dynamics and QED in extremely intense laser pulses. (plenary talk)
Pálffy-BuB, A.:
Nuclear and plasma physics at extreme light sources.
- Noida, India, International conference on photonics, metamaterials and plasmonics (14.-16.02.2019)
Bhadoria, S.:
Laser-driven shock acceleration of quasi-monoenergetic ions in the ultra-relativistic regime.
Sinha, U.:
Polarized light from the transportation of matter antimatter beam in a plasma.
- Novosibirsk, Russian Federation, Int. Workshop on Beam Cooling (COOL'19) (23.-27.09.2019)
Wolf, A.:
Electron Cooling in the Low-Energy Electrostatic Storage Ring CSR at Electron Energies down to 10 eV.

- Odense, Denmark, MASS2019 (20.-24.05.2019)
Alanne, T.:
A critical look at β -function singularities at large N .
- Odessa, Ukraine, 6th Gamow International Conference "New Trends in Cosmology, Astrophysics and HEP after Gamow" (11-18.08.2019)
Aharonian, F.:
Cosmic Ray Factories.
- Orsay, France, LAL, Higgs Hunting 2019 (29.-31.07.2019)
Blasi, S.:
Flavored-axion Higgs unification.
- Oxford, UK, PyHEP 2019 workshop (16.-18.10.2019)
Dembinski, H.:
Introduction to iminuit.
- Padova, Italy, 1st SWGO International Collaboration Meeting (30.10.-01.11.2019)
Hinton, J.A.:
The Southern Wide-Field Gamma-ray Observatory.
- Palo Alto, California, USA, Extremely High-Intensity Laser Physics 2019 (03.-06.09.2019)
Di Piazza, A.:
Theory of Strong-Field QED in Intense Laser Fields.
- Paris, France, 26th International Symposium on Ion-Atom Collisions (ISIAC) (22.07.2019)
Novotny, O.:
Rotational-state resolved dissociative recombination measurements at the Cryogenic Storage Ring (CSR).
- Paris, France, LPNHE - French Physics Society day on rare events search (12.10.2019)
Kermaidic, Y.:
Probing New Physics with neutrinoless double beta decay.
- Pohang, Republic of Korea, Workshop: XFEL in Attosecond Science (11.07.2019)
Ott, C.:
Resonant XUV nonlinear absorption with a free-electron laser.
- Pohang, South Korea, APCTP workshop "Nuclear Many-Body Theories: Beyond the mean field approaches" (01.-10.07.2019)
Lim, Y.:
Nuclear equation of state for hot dense matter.
- Pohang, South Korea, APCTP Workshop on flavor symmetry and related topics (19.03.2019)
Trautner, A.:
CP, T-Duality and Modular Symmetries. (plenary lecture)
- Portorož, Slovenia, Precision era in High Energy Physics Workshop (16.-19.04.2019)
Brdar, V.:
The Conformal Realization of the Neutrino Option and its Gravitational Wave Signature.
- Prague, Czech Republic, MEDEX (27.-31.05.2019)
Eliseev, S.:
Penning-Trap Mass Spectrometry and Neutrino Mass.
Graf, L.:
Particle Physics of Non-Standard Neutrinoless Double Beta Decay.
- Prague, Czech Republic, SPIE Optics and Optoelectronics 2019 (01.-04.04.2019)
Di Piazza, A.:
Improved local constant-field approximation for strong-field QED codes.
Keitel, C. H.:
Ultra relativistic quantum dynamics at the high-end of extreme field laser physics. (keynote presentation)
- Prayagraj (Allahabad), India, Neutrino and Dark Matter Activity Week, Harish-Chandra Institute (01.02.2019)
Brdar, V.:
Low scale neutrino mass generation and phenomenological implications.
- Primosten, Croatia, Bridging perturbative and non-perturbative physics (07.-09.10.2019)
Blasi, S.:
Critical point method and beta-function at large N .

- Riezlern, Austria, 40th Extreme Atomic Systems (EAS) Meeting (18.-21.02.2019)
Lentrott, D. S.:
X-ray quantum optics with Mössbauer nuclei.
Oreshkina, N. S.:
The determination of nuclear parameters and nuclear polarization correction in heavy muonic systems.
- Rostock, Germany, DPG Spring Meeting (Section AMOP) (10.-15.03.2019)
Debierre, V.:
Towards testing physics beyond the Standard Model with the bound-electron g factor.
Evers, J.:
Introduction to x-ray quantum optics.
Pálffy-Buß, A.:
X-rays go quantum.
- Salamanca, Spain, 22nd International Conference on Radionuclide Metrology and its Applications (ICRM 2019) (27.-31.05.2019)
Buck, C.:
Low Energy Ge Spectrometry with the CONUS reactor neutrino experiment.
- San Juan, PR, USA, COFI workshop 2018 (21.-25.05.2019)
Platscher, M.:
Reconciling lepton flavor violation and the muon anomalous magnetic moment.
- San Sebastian, Spain, CECAM Workshop Ultrafast Physics from molecules to nanostructures (07.-10.10.2019)
Pfeifer, T.:
Quantum dynamics and control around the 1-fs time scale: Driving excited states in atoms and molecules with intense light from the NIR to the XUV.
- Santa Barbara, USA, KITP Meeting (19.08.-27.09.2019)
Reville, B.:
Cosmic ray Confinement.
- Santa Barbara, USA, KITP Meeting, (12.08.-18.10.2019)
Kirk, J.G.:
Particle acceleration in Poynting-flux dominated outflows.
- Santander, Spain, IFCA: Santander 2019: Atomic Databases Meeting (23.-24.01.2019)
Crespo López-Urrutia, J. R.:
Reliable atomic data for fusion research and astrophysics: Benchmarking calculations for highly charged ions.
- Schladming, Austria, Excited QCD 2019 (30.1.-3.2.2019)
Schmelling, M.:
Heavy Ion and Fixed Target Results at LHCb.
- Seoul, South Korea, International Workshop on New Physics at the Low Energy Scales (NEPLES-2019) (23.-27.09.2018)
Akhmedov, E.:
Relic neutrino detection through angular correlations in inverse beta-decay.
Xu, X.:
The MSW potentials induced by ultralight mediators.
- Shanghai, China, International Workshop on Laboratory Astrophysics (30.10.-01.11.2019)
Kumar, N.:
Polarized light from the transporation of matter-antimatter beam in a plasma.
- Sinaia, Romania, ELI-NP Summer School 2019 (09.-13.09.2019)
Di Piazza, A.:
Strong-field QED in intense laser fields.
Vacuum-polarization effects in intense laser beams.
- Snowbird, UT, USA, Physics of Quantum Electronics, PQE-2019 (06.-11.01.2019)
Pfeifer, T.:
XUV nonlinear optics and spectroscopy near resonances.
Evers, J.:
Coherent x-ray-optical control of Mössbauer nuclei with zeptosecond timing stability.
- St. Louis, USA, NTN workshop on NSI (05.2019)
Xu, X.:
New physics in coherent neutrino scattering.

- Steinbach (Taunus), Germany, New trends in atomic physics", Tagungs- und Bildungszentrum Steinbach (10.05.2019)
Blaum, K.:
Precision atomic physics measurements in Penning traps.
Pfeifer, T.:
From sub-femtosecond dynamics of atoms to super-nanosecond precision metrology of nuclei and ions.
- Sudbury, Canada, SNEWS 2.0 (06.2019)
Xu, X.:
Neutrino astronomy with supernova neutrinos.
- Szeged, Hungary, 7th International Conference on Attosecond Science and Technology (01.-05.07.2019)
Ott, C.:
XUV Excited-State Dynamics of a Two-Electron System in Strong Fields.
Birk, P.:
The Strong-Field Response of an Ionization Threshold.
Ding, T.:
Transient Absorption Ion Spectroscopy with XUV-FEL Pulses.
- Taipei, Taiwan, XXXIX International Symposium on Physics in Collision (PIC 2019) (16.-20.09.2019)
Buck, C.:
Very short baseline reactor neutrino experiments.
- Tianjin, China, 8th International Workshop on Electrostatic Storage Devices (26.-30.08.2019)
Wolf, A.:
Molecular studies in the Heidelberg CSR.
- Tihany, Hungary, International Conference on Precision Physics and Fundamental Physical Constants (FFK-2019) (09.-14.06.2019)
Harman, Z.:
Theory of the g factor of few-electron ions.
- Tokai, Japan, Fundamental theories for negative muon experiments at J-PARC, and its application to elemental analysis (18.04.2019)
Michel, N.:
Electric quadrupole interaction in high-Z muonic atoms.
Oreshkina, N. S.:
FNS, QED and screening effects in heavy muonic atoms.
- Tokyo, Japan, Inauguration Symposium of the MPG-RIKEN-PTB Center for Time, Constants and Fundamental Symmetries, RIKEN (08.04.2019)
Blaum, K.:
Physics with Penning Traps towards the Precision Limit - Determination of Fundamental Constants.
- Tokyo, Japan, Prospects of Neutrino Physics (08.-12.04.2019)
Rodejohann, W.:
Neutrinoless Double Beta Decay: Particle Physics Aspects.
- Torino, Italy, XXVII International Workshop on Deep Inelastic Scattering and Related Subjects, DIS 2019 Workshop (08.-12.04.2019)
Dembinski, H.:
Heavy-flavour hadron production at LHCb.
- Toronto, Canada, 29th International Symposium on Lepton Photon Interactions at High Energies (LP2019) (05.-10.08.2019)
Bonhomme, A.:
Latest results of the STEREO sterile neutrino search at the ILL Grenoble.
- Toyama, Japan, XVIth International Conference on Topics in Astroparticle and Underground Physics, TAUP2019 (09.-13.09.2019)
Hinton, J.A.:
Multimessenger astronomy with very high energy gamma ray observation.
Lindner, M.:
Status and new results of the CONUS experiment.
- Trento, Italy, ECT* Workshop "Precise beta decay calculations for searches for new physics" (10.04.2019)
Schwenk, A.:
Chiral effective field theory for nuclei and dark matter direct detection.
- Trento, Italy, Progress and Challenges in Neutrinoless Double Beta Decay (15.-19.07.2019)
Graf, L.:
Probing BSM Physics with Non-Standard $0\nu\beta\beta$.

- Trento, Italy, SN neutrinos at the crossroads: astrophysics, oscillations and detection (13.-17.05.2019)
Smirnov, A. Y.:
Effective theory of collective neutrino oscillations.
Doering, C.:
Stability of three neutrino flavor conversion in supernovae.
- Trieste, Italy, FERMI Science Colloquium, ELETTRA (12.09.2019)
Pfeifer, T.:
Quantum dynamics and control on the 1-fs time scale using several optical and XUV fields tuned in intensity and time.
- Tucson, USA, pSCT Inauguration Workshop (17.-18.01.2019)
Hofmann, W.:
The Cherenkov Telescope Array.
- Ulsan, South Korea, Mini-workshop on Laboratory astrophysics and atomic physics with traps and X-rays (12.04.2019)
Crespo López-Urrutia, J. R.:
Hard-core atomic physics: highly charged ions.
Laboratory astrophysics with electron beam ion traps.
- Vancouver, Canada, TRIUMF, Progress in ab initio techniques in nuclear physics (26.02.2019)
Schwenk, A.:
Chiral interactions for nuclear matter and medium-mass nuclei.
- Venice, Italy, XVIII Inter. Workshop on Neutrino Telescopes (18.-22.03.2019)
Aharonian, F.:
Gamma Ray Astrophysics.
- Ventura, California, USA, Gordon Research Conference on Gaseous Ions: Structures, Energetics and Reactions (17.-22.02.2019)
Wolf, A.:
Rotational Cooling and Electron Collisions of Molecular Ions at the Heidelberg Cryogenic Storage Ring CSR.
- Villigen, Switzerland, EQLIPS Workshop 2019 at PSI (25.10.2019)
Sturm, S.:
Towards laser-cooled highly charged ions for the ALPHATRAP g-factor experiment.
- Villigen, Switzerland, PSI2019 (20.10.2019)
Sturm, S.:
QED Tests in Strong Fields and Fundamental Constants from Precision Measurements on Highly Charged Ions.
- Warsaw, Poland, Scalars 2019 conference (11.-14.09.2019)
Lindner, M.:
Conformal extensions of the Standard Model.
Trautner, A.:
Systematic construction of basis invariants for the most general two Higgs doublet model.
- Xi'an, China, 11th International Conference on Information Optics and Photonics (CIOP 2019) (07.-10.08.2019)
Li, J.-X.:
Determination of the carrier-envelope phase of PW laser pulses.
- Yerevan, Armenia, Int. Workshop: VHE phenomena Around Supermassive Black Holes (08.-12.04.2019)
Celli, S.:
Propagation and radiation of accelerated particles in clumpy supernova remnants.
Romoli, C.:
The complex spectral and temporal behaviour of Markarian 501.

At Other Institutes

Aharonian, F.:

Gamma Rays – messengers of crucial information about sources of galactic and extragalactic cosmic rays.

Hamburg, Germany, Joint Theory Colloquium of DESY & Hamburg University (16.01.2019)

Cosmic Ray PeVatrons in the Milky Way.

Pasadena, USA, Caltech Astronomy Colloquium (27.02.2019)

Cosmic Ray PeVatrons: young stars versus dead star.

New Haven, USA, Yale University, Wright Laboratory NPA Seminar (05.03.2019)

Boston, USA, Harvard University, Theoretical Astrophysics Seminar (08.03.2019)

Probing Nature's Extreme Accelerators with Gamma Rays.

New York, USA, Columbia University, Physics Department Seminar (08.03.2019)

Towards solution of the origin of Galactic Cosmic Rays.

Greenbelt, USA, NASA/GSFC, Astrophysics Science Division Colloquium (12.03.2019)

Alanne, T.:

Beyond vanilla WIMPs and leptogenesis via extended scalar sector.

Hamburg, Germany, DESY theory seminar (22.07.2019)

Arcadi, G:

Light Bosons from Tritium Decay.

Laboratori Nazionali di Frascati Laboratori Nazionali di Frascati, Italy (21.05.2019)

Blasi, S.:

Softened Goldstone-symmetry Breaking.

Florence, Italy, INFN – sezione di Firenze, (group seminar) (26.06.2019)

Geneva, Switzerland, CERN, BSM Forum (06.06.2019)

Chicago, Illinois, USA, Fermilab, Theoretical Physics Seminar (08.05.2019)

Ithaca, New York, USA, Cornell University, Particle Theory Seminar (17.04.2019)

Beta-function at large N.

Syracuse, New York, USA, Syracuse University (group seminar) (26.04.2019)

Blaum, K.:

Physics with Penning traps towards the precision limit.

Physics Colloquium, Université de Genève, Switzerland (25.03.2019)

MLL-Kolloquium, Fakultät für Physik, Ludwig-Maximilians-Universität München, Germany (25.04.2019)

Physikalisches Kolloquium (Jubiläumskolloquium für Lutz Schweikhard), Institut für Physik, Universität Greifswald, Germany (14.06.2019)

PTB-Kolloquium, PTB Braunschweig, Germany (23.10.2019)

SFB-Seminar, Institut für Physik, Universität Kassel, Germany (28.10.2019)

High-Precision Atomic Mass Measurements.

Lunch Seminar SFB 1225 ISOQUANT, Institut für Theoretische Physik, Universität Heidelberg, Germany, (11.11.2019)

Present and future of precision atomic and nuclear physics experiments with cooled and stored ions.

Gothenburg University, Department of Physics Research Retreat, Marstrands, Sweden (25.11.2019)

Brdar, V.:

Low scale neutrino mass generation and phenomenological implications.

Mainz, Germany, Theorie-Palaver, Johannes Gutenberg University (11.06.2019)

Crespo López-Urrutia, J. R.:

Laboratory astrophysics with electron beam ion traps.

Tokyo, Japan, ISAS Space Science Colloquium & Space Science Seminar

HCI clocks.

Hard-core atomic physics: highly charged ions.

Tokyo, Japan, RIKEN, (11.04.2019)

At the core of atomic matter.

Bonn, Germany, Physics Colloquium Bonn University (11.05.2019)

Optical clocks and frequency metrology using highly charged ions.

Vancouver, Canada, University of British Columbia (05.09.2019)

Dynamics of (mixed) Coulomb crystals.

Florence, Italy, CC4C mid-term meeting EMPIR network

Precision laboratory astrophysics in the EUV and soft X-ray region with synchrotron radiation and free-electron lasers.

Trieste, Italy, Elettra Sincrotrone Trieste (25.11.2019)

Orbital crossings and optical clocks with highly charged ions.

Amsterdam, The Netherlands, Vrije Universiteit Amsterdam (19.12.2019)

Debierre, V.:

The Quantum Electrodynamics of Simple Ions.

Paris, France, Centre National de la Recherche Scientifique (04.04.2019)

- Dembinski, H.:**
From the Muon Puzzle to the LHC.
 Ghent, Belgium, University Colloquium (26.02.2019)
 Zürich, Switzerland, University Colloquium (11.03.2019)
 Dortmund, Germany, TU Colloquium (03.06.2019)
- Di Piazza, A.:**
Radiation reaction in classical and quantum electrodynamics.
 Milan, Italy, Department of Mathematics, University of Milan, Physics Colloquium (07.11.2019)
- Dorn, A.:**
Electron Impact Ionization of Atoms, Molecules and Clusters.
 Madrid, Spain, Instituto de Física Fundamental (12.12.2019)
- Evers, J.:**
X-ray quantum optics with Mössbauer nuclei.
 Erlangen, Germany, IMPRS Physics of Light, IMPRS Monthly Meeting (24.04.2019)
- Giacinti, G.:**
Particle Acceleration at Pulsar-Wind Termination Shocks.
 IPAG Laboratory; Grenoble, France (25.06.2019)
Acceleration of X-ray Emitting Electrons in the Crab Nebula.
 Columbia University; New York City, USA (01.08.2019)
- Goertz, F.:**
Softened Symmetry Breaking in Composite Higgs Models.
 University Würzburg, Germany (07.11.2019)
Softened Goldstone-Symmetry Breaking.
 Lausanne, Switzerland, EPFL, HET Seminar (04.07.2019)
- Graf, L.:**
Lepton Number Violation in the Nucleus and the Universe.
 Yale, Nuclear Particle Astrophysics seminar (30.10.2019)
- Harth, A.:**
Attosecond time resolved Photoionization: a closer look into the electron ionization continuum.
 Atomphysik Seminar GSI, Darmstadt, Deutschland (27.11.2019)
Attosecond timing with spectral resolution: what comes next?
 IRTG Seminar, Freiburg, Deutschland (18.06.2019)
 Ultrafast Science Seminar, Bielefeld, Deutschland (27.05.2019)
- Hasterok, C.:**
The XENON1T Experiment: Latest Results on Dark Matter Searches and First Observation of Double Electron Capture of Xe-124.
 Universität Heidelberg, Germany, Teilchenkolloquium (21.05.2019)
- Hinton, J. A.:**
The Future of Very High Energy γ -ray Astronomy.
 Leicester, University of Leicester, physics and astronomy seminar (20.03.2019)
- Hofmann, W.:**
The galaxy viewed in very high energy gamma rays.
 Bonn, Germany, Physikalisches Kolloquium (17.05.2019)
- Jardin-Blicq, A.:**
A HAWC view of the multi-TeV gamma-ray sky.
 Zeuthen, Germany, DESY Astrophysikseminar (18.10.2019)
- Kermaidic, Y.:**
Probing New Physics with neutrinoless double beta decay.
 Paris, France, LPNHE - French Physics Society day on rare events search (12.10.2019)
- Kirk, J.G.:**
Gamma-ray flares from pulsar wind nebulae.
 Columbia University colloquium, New York, USA (03.09.2019)
- Lentrod, D. S.:**
Ab initio few-mode theories for quantum potential scattering problems.
 Hamburg, Germany, Max Planck Institute for the Structure and Dynamics of Matter, Center for Free-Electron Laser Science, MPST Theory Seminar (20.05.2019)
 Freiburg im Breisgau, Germany, Albert-Ludwigs-Universität Freiburg, Quantum Optics and Statistics Colloquium (13.02.2019)
Ab initio few-mode theory for open quantum systems.
 Warsaw, Poland, Faculty of Physics, University of Warsaw, Condensed Matter Physics Seminar (18.10.2019)

Lindner, M.:

Neutrinos and Dark Matter.

Bramsche, Germany, GRK 2149 Retreat of Münster University (24.09.2019)

Die Suche nach Dunkler Materie.

Palais Hirsch, Schwetzingen, Zweiter Schwetzingen Astronomietag (23.02.2019)

Maneschg, W.:

The dawn of coherent elastic neutrino nucleus scattering and its search with CONUS.

Heidelberg University, Germany, Colliding Pizza Seminar (17.07.2019)

Marrodán Undagoitia, T.:

Auf der Jagd nach Dunkler Materie.

Darmstadt, Germany, Volkssternwarte, öffentlicher Vortrag (08.2019)

Moshhammer, R.:

Atomic physics experiments with intense lasers.

Darmstadt, Germany, GSI (30.10.2019)

Pálffy-Buß, A.:

Nuclear quantum optics with x-rays.

Giessen, Germany, Justus-Liebig-Universität Gießen, Röntgen Lecture (28.11.2019)

The energy of the ²²⁹Th nuclear clock transition.

Darmstadt, Germany, GSI Helmholtzzentrum für Schwerionenforschung, EMMI Featured Talk/GSI-FAIR Colloquium (19.11.2019)

Depletion of nuclear isomers via nuclear excitation by electron capture.

York, United Kingdom, Institute of Physics, University of York, Physics Seminar (04.06.2019)

Quantum dynamics of atomic nuclei.

Mainz, Germany, Institute of Physics, Johannes-Gutenberg-Universität Mainz, PRISMA Colloquium (29.05.2019)

Nuclear excitation by electron capture in plasma and ion beam scenarios.

Lausanne, Switzerland, École Polytechnique Fédérale de Lausanne, Physics Seminar (20.05.2019)

Pfeifer, T.:

Dynamics of (transiently) bound states in strong laser fields and what we can learn from it.

Lund, Sweden, Seminar, Lund University (24.01.2019)

Die Grundlagen der Bewegung im Atom: Intensive Laser fragen, Elektronen antworten, wir lernen.

Nürnberg, Germany, Mathematisch-Physikalisches Kolloquium TU Nürnberg (07.05.2019)

Das angeregte Gespräch zweier Elektronen: wie wir sie belauschen und ganz kurz mal Fragen zur Physik stellen.

Berlin, Germany, Physikalische Gesellschaft zu Berlin (PGzB). Kolloquium (04.07.2019)

Listening to the ultrafast chat of excited electrons...and asking them some quick Physics questions.

Darmstadt, Germany, GSI Colloquium (22.10.2019)

Platscher, M.:

Phenomenological implications of the Vainshtein screening mechanism.

Heidelberg, Germany, ITP Seminar (07.05.2019)

Reville, B.:

Cosmic-ray acceleration – limits and laboratories.

Erlangen, Germany, Seminar (19.12.2019)

Rodejohann, W.:

New Physics in Neutrino Mass Experiments.

Karlsruhe, Germany, Physikalisches Kolloquium (13.12.2019)

Schwenk, A.:

From nuclei to stars - The strong interaction in the universe.

Physics Colloquium, University of Duisburg-Essen, Germany, (30.10.2019)

Shaisultanov, R.:

Spin effects in the external electromagnetic field.

Dolní Břežany, Czech Republic, ELI Beamlines, Institute of Physics of the Academy of Sciences of the Czech Republic, Physics Seminar (07.06.2019)

Sikora, B.:

Aktuelle Forschungsbezüge zur Sommerfeldschen Feinstrukturkonstante.

Leipzig, Germany, Arnold-Sommerfeld-Gesellschaft e. V. (ASG), Sommerfeld-Tag (25.04.2019)

Smirnov, A. Y.:

Strange effects in neutrino oscillations.

München, Germany, Colloquium at ASC, the Ludwig-Maximilian-Universität (12.06.2019)

Sturm, S.:

Precision Penning traps – testing QED and determining fundamental constants.

QUANTUM Seminar, University of Mainz (17.01.2019)

Seminar Ubachs, VU Amsterdam, The Netherlands (09.05.2019)

Surajbali, P.:

Fermi-bubbles - an overview and more.

Heidelberg, Germany, University, ITA “Blackboard Colloquium” (28.01.2019)

Observing large scale structures in the gamma-ray sky

Surrey, UK, MSSL Astronomy Seminar (17.10.2019)

Tamburini, M.:

Polarized Laser-WakeField-Accelerated Kiloampere Electron Beams.

Strong-field QED beyond the local-constant-field approximation in laser-plasma interaction.

Pisa, Italy, Consiglio Nazionale delle Ricerche - Istituto Nazionale di Ottica (CNR-INO), Physics Seminar (10.12.2019)

Particle and plasma dynamics in extreme laser fields.

Jena, Germany, Helmholtz Institute Jena (20.05.2019)

Tenorth, V.T.:

Extended Dark Matter EFT(s).

Orsay, France, Univ. Paris-Sud Laboratoire de Physique Theorique d’Orsay (13.06.2019)

Trautner, A.:

A systematic method to construct basis invariants in the 2HDM and beyond.

München, TUM, Particle theory seminar (01.05.2019)

Systematic construction of basis invariants in the 2HDM and beyond.

Santa Cruz, California, USA, UC Santa Cruz, Particle theory seminar (02.04.2019)

Tuffs, R.J.:

The Growth of Spiral Galaxies over Cosmic Time.

Heidelberg, Germany, Heidelberg Joint Astronomical Colloquium (13.11.2019)

Vogl, S.:

Dark matter phenomenology meets NREFT: Non-perturbative effects in dark matter production.

Aachen, Germany, RWTH Aachen, Seminar (15.05.2019)

New effects in dark matter production.

Brussels, Belgium, Université libre de Bruxelles, Theoretical Physics Seminar (03.05.2019)

Heidelberg, Germany, Ruprecht-Karls-Universität, Teilchentee (27.06.2019)

Wistisen, T. N.:

Higher order processes in strong electromagnetic fields.

Hamburg, Germany, LUXE meeting (01.10.2019)

Xu, X.:

The Wolfenstein potentials induced by ultralight mediators.

Beijing, China, Tsinghua University (09.2019)

Loop-induced neutrino interactions.

UC Irvine, California USA (06.2019)

UC Riverside, California USA (06.2019)

Zanin, R.:

Binary systems in gamma rays: shining light on accretion particle outflows, and their possible link.

Madrid, Spain, Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas CIEMAT (25.05.2019)