

DPG Spring Meeting in Giessen 2024

Report of Contributions

Contribution ID: 1

Type: **not specified**

Plenary I: Mapping Highly-Energetic Messengers throughout the Universe

Monday, 11 March 2024 13:30 (45 minutes)

Presenter: BUSON, Sara (Wurzburg and DESY Zeuthen)

Contribution ID: 2

Type: **not specified**

Gravity tests with pulsars using new-generation radio telescopes

Monday, 11 March 2024 14:15 (30 minutes)

Presenter: HU, Huanchen (Max-Planck-Institut für Radioastronomie)

Session Classification: SMuK Dissertation Symposium

Contribution ID: 3

Type: **not specified**

High-precision laser spectroscopy of helium-like carbon $^{12}\text{C}^{4+}$

Monday, 11 March 2024 14:45 (30 minutes)

Presenter: IMGRAM, Phillip (Institut für Kernphysik, TU Darmstadt)

Session Classification: SMuK Dissertation Symposium

Contribution ID: 4

Type: **not specified**

Gravitational Scattering of Compact Bodies from Worldline Quantum Field Theory

Monday, 11 March 2024 15:15 (30 minutes)

Presenter: JAKOBSEN, Gustav (Institut für Physik und IRIS Adlershof, Humboldt Universität zu Berlin, Berlin – Max Planck Institute for Gravitational Physics (Albert Einstein Institute) Potsdam)

Session Classification: SMuK Dissertation Symposium

Contribution ID: 5

Type: **not specified**

Unlocking the mysteries of nuclear interactions and their astrophysical impact

Monday, 11 March 2024 15:45 (30 minutes)

Presenter: ŠERKŠNYTE, Laura (Technical University of Munich)

Session Classification: SMuK Dissertation Symposium

Contribution ID: 6

Type: **not specified**

Plenary II: Towards the German Center for Astrophysics in Lusatia

Tuesday, 12 March 2024 09:00 (45 minutes)

Presenter: HASINGER, Günther (Deutsches Zentrum für Astrophysik, Görlitz)

Contribution ID: 7

Type: **not specified**

Plenary III: Photonuclear Reactions: Status and Perspectives

Tuesday, 12 March 2024 09:45 (45 minutes)

Presenter: PIETRALLA, Norbert (Inst. f. Kernphysik, TU Darmstadt)

Contribution ID: 8

Type: **not specified**

How to understand the hadron spectrum

Tuesday, 12 March 2024 11:00 (30 minutes)

Presenter: KÜßNER, Maike (Ruhr-Universität Bochum)

Session Classification: Hadrons and Nuclei: Invited Talks 1

Contribution ID: 9

Type: **not specified**

3-body problem from phenomenology and lattice QCD

Tuesday, 12 March 2024 11:30 (30 minutes)

Presenter: MAI, Maxim (HISKP, Uni Bonn)

Session Classification: Hadrons and Nuclei: Invited Talks 1

Contribution ID: **10**

Type: **not specified**

Measurement of Antiproton-Production Cross Sections at AMBER

Tuesday, 12 March 2024 12:00 (30 minutes)

Presenter: PÖSCHL, Thomas (CERN)

Session Classification: Hadrons and Nuclei: Invited Talks 1

Contribution ID: 11

Type: **not specified**

First laser spectroscopy measurements of ^{53}Ca and the prospects for measuring ^{54}Ca

Tuesday, 12 March 2024 14:00 (30 minutes)

Presenter: LELLINGER, Tim (EP-SME-IS, CERN – TU-Darmstadt)

Session Classification: Hadrons and Nuclei: Focus Session I: New Results on Nuclear Structure at Shell Closures

Contribution ID: 12

Type: **not specified**

High-precision mass measurements near Sn-100 challenge nuclear theory

Tuesday, 12 March 2024 14:30 (30 minutes)

Presenter: NIES, Lukas (CERN - Universität Greifswald)

Session Classification: Hadrons and Nuclei: Focus Session I: New Results on Nuclear Structure at Shell Closures

Contribution ID: 13

Type: **not specified**

Ab initio advances for medium-heavy nuclei and electroweak properties

Tuesday, 12 March 2024 15:00 (30 minutes)

Presenter: MIYAGI, Takayuki (Technische Universität Darmstadt, Department of Physics)

Session Classification: Hadrons and Nuclei: Focus Session I: New Results on Nuclear Structure at Shell Closures

Contribution ID: 14

Type: **not specified**

Strong-interaction Matter under Extreme Conditions: a Review

Wednesday, 13 March 2024 09:00 (45 minutes)

Presenter: MOORE, Guy D. (Institut für Kernphysik, TU Darmstadt)

Session Classification: Symposium: Strong-Interaction Matter under Extreme Conditions

Contribution ID: 15

Type: **not specified**

Theory of Strong-Interaction Matter

Wednesday, 13 March 2024 09:45 (45 minutes)

Presenter: ENDRODI, Gergely (Bielefeld University)

Session Classification: Symposium: Strong-Interaction Matter under Extreme Conditions

Contribution ID: 16

Type: **not specified**

Unravelling the phase structure of strong-interaction matter with high-energy heavy-ion experiments

Wednesday, 13 March 2024 11:00 (45 minutes)

Presenter: GALATYUK, Tetyana (Technische Universität Darmstadt – GSI, Darmstadt)

Session Classification: Symposium: Strong-Interaction Matter under Extreme Conditions

Contribution ID: 17

Type: **not specified**

Neutron star mergers in numerical relativity

Wednesday, 13 March 2024 11:45 (45 minutes)

Presenter: SHIBATA, Masaru (Am Mühlenberg 1, Potsdam-Golm 14476)

Session Classification: Symposium: Strong-Interaction Matter under Extreme Conditions

Contribution ID: **18**

Type: **not specified**

Observing the emergence of elliptic flow

Wednesday, 13 March 2024 14:00 (30 minutes)

Presenter: BRANDSTETTER, Sandra (Physics Institute, Heidelberg University)

Session Classification: Hadrons and Nuclei: Focus Session II: Emergence of Collectivity in Few-Body Hadron Systems

Contribution ID: 19

Type: **not specified**

Multi-particle correlations: from hot-and-dense quark-gluon matter to an ultracold-and-dilute system with few atoms

Wednesday, 13 March 2024 14:30 (30 minutes)

Presenter: SELYUZHENKOV, Ilya (GSI Darmstadt)

Session Classification: Hadrons and Nuclei: Focus Session II: Emergence of Collectivity in Few-Body Hadron Systems

Contribution ID: 20

Type: **not specified**

Hydrodynamic attractors and transport in small systems

Wednesday, 13 March 2024 15:00 (30 minutes)

Presenter: MAZELIAUSKAS, Aleksas (Institut für Theoretische Physik, Universität Heidelberg)

Session Classification: Hadrons and Nuclei: Focus Session II: Emergence of Collectivity in Few-Body Hadron Systems

Contribution ID: 21

Type: **not specified**

Plenary VI: The muon $g-2$ and the role of hadron physics

Thursday, 14 March 2024 09:00 (45 minutes)

Presenter: WITTIG, Hartmut (PRISMA+ Cluster of Excellence and Institute for Nuclear Physics, Johannes Gutenberg University Mainz)

Contribution ID: 22

Type: **not specified**

Plenary VII: The tragic destiny of Mileva Marić Einstein

Thursday, 14 March 2024 09:45 (45 minutes)

Presenter: GAGNON, Pauline (Indiana University)

Contribution ID: 23

Type: **not specified**

Gamma spectroscopy with AGATA: New insights in nuclear excitations along the nuclear chart

Thursday, 14 March 2024 11:00 (30 minutes)

Presenter: REITER, Peter (University of Cologne, Institute of Nuclear Physics)

Session Classification: Hadrons and Nuclei: Invited Talks 2

Contribution ID: 24

Type: **not specified**

Anisotropic flow in heavy-ion collisions at high and low beam energies

Thursday, 14 March 2024 11:30 (30 minutes)

Presenter: ELFNER, Hannah (GSI, Darmstadt, Germany – Goethe University, Frankfurt, Germany – FIAS, Frankfurt, Germany)

Session Classification: Hadrons and Nuclei: Invited Talks 2

Contribution ID: 25

Type: **not specified**

Status of ALICE and ALICE 3

Thursday, 14 March 2024 12:00 (30 minutes)

Presenter: SCHMAH, Alexander (GSI Darmstadt)

Session Classification: Hadrons and Nuclei: Invited Talks 2

Contribution ID: 26

Type: **not specified**

Theory of multi-quark states

Thursday, 14 March 2024 14:00 (30 minutes)

Presenter: HANHART, Christoph (IAS-4, Forschungszentrum Jülich)

Session Classification: Hadrons and Nuclei: Focus Session III: Multiquark and Molecular States

Contribution ID: 27

Type: **not specified**

Cross-Experiment Insights into Multiquarks and Molecular States

Thursday, 14 March 2024 14:30 (30 minutes)

Presenter: MIKHASENKO, Mikhail (Ruhr University Bochum)

Session Classification: Hadrons and Nuclei: Focus Session III: Multiquark and Molecular States

Contribution ID: 28

Type: **not specified**

Molecular and bound states searches with femtoscopy

Thursday, 14 March 2024 15:00 (30 minutes)

Presenter: MANTOVANI SARTI, Valentina (TUM Department of Physics, Garching)

Session Classification: Hadrons and Nuclei: Focus Session III: Multiquark and Molecular States

Contribution ID: 29

Type: **not specified**

Plenary VIII: Measurement of charge radii and moments of exotic nuclides

Friday, 15 March 2024 09:00 (45 minutes)

Presenter: VÁZQUEZ RODRÍGUEZ, Liss (Max-Planck-Institut für Kernphysik, Heidelberg, Germany – European Organization for Nuclear Research, Geneva, Switzerland)

Contribution ID: **30**

Type: **not specified**

Strange hadron spectroscopy at GlueX and beyond

Friday, 15 March 2024 09:45 (30 minutes)

Presenter: HURCK, Peter (University of Glasgow, UK)

Session Classification: Hadrons and Nuclei: Invited Talks 3

Contribution ID: **31**

Type: **not specified**

Overview of LUNA project at LNGS

Friday, 15 March 2024 10:15 (30 minutes)

Presenter: PIATTI, Denise (University of Padua, Italy – INFN, division of Padua, Italy)

Session Classification: Hadrons and Nuclei: Invited Talks 3

Contribution ID: 32

Type: **not specified**

Precision theory for charge radii of light nuclei

Friday, 15 March 2024 11:15 (30 minutes)

Presenter: FILIN, Arseniy (Institut für Theoretische Physik II, Ruhr-Universität Bochum)

Session Classification: Hadrons and Nuclei: Invited Talks 4

Contribution ID: 33

Type: **not specified**

Investigating dense nuclear matter - recent results from HADES

Friday, 15 March 2024 11:45 (30 minutes)

Presenter: KARDAN, Behruz (Goethe-Universität, Frankfurt am Main)

Session Classification: Hadrons and Nuclei: Invited Talks 4

Contribution ID: 34

Type: **not specified**

High-precision mass measurements of light ion species

Friday, 15 March 2024 12:15 (30 minutes)

Presenter: SASIDHARAN, Sangeetha (Max-Planck-Institut für Kernphysik, Heidelberg – GSI Helmholtzzentrum, Darmstadt)

Session Classification: Hadrons and Nuclei: Invited Talks 4

Contribution ID: 35

Type: **not specified**

Funding opportunities for Early Career Researchers at DFG

Wednesday, 13 March 2024 13:00 (30 minutes)

Presenter: KRÄMER, Michael (DFG)