Session Program

19–23 Oct 2026



Critical Stability of Few-Body Quantum Systems

Talk

Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430
Staudingerweg 9 / 2nd floor, 55128 Mainz

Monday 19 October

10:20 – 11:00

Talk: Universality in strongly interacting quantum systems

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Hans-Werner Hammer

11:30 – 12:10

Talk: Bound States in the Continuum in Ultracool Atomic Collisions

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Eleonora Lippi

12:10 – 12:50

Talk: The role of correlations in molecular droplets

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Panagiotis Giannakeas

14:20 – 15:00

Talk: The three-body contact of the unitary Fermi gas

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Philipp Lunt

15:30 – 16:10

Talk: Attractive three-body interactions in ultracold lithium

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Pim J.P. Kersberger

16:10 – 16:50

Talk: Discussion Session

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz

Tuesday 20 October

09:00 – 09:40

Talk: Coupled-channel method for the scattering hypervolume in ultracold atomic three-body collisions

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Servaas Kokkelmams

09:40 – 10:20

Talk: Scaling laws of three-body recombination rate at overlapping Feshbach resonances in ultracold gases

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Lev Khaykovich

10:50 – 11:30

Talk: Dynamics of one-dimensional spinor Bose-Einstein condensates near spin-spatial resonances

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Doerte Blume

11:30 – 12:10

Talk: Finite-range corrections in few-body systems up to the third order of contact EFT

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Martin Schaefer

14:20 – 15:00

Talk: Field-Induced Dynamics of Small Weakly Bound Clusters

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Maksim Kunitski

15:30 – 16:10

Talk: Effective description of universal states of two-dimensional bosons

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Artem Volosniev

16:10 – 16:50

Talk: Integrability in Few-Well Quantum Systems

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Angela Foerster

16:50 – 17:30

Talk: Discussion Session II

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz

Wednesday 21 October

09:00 – 09:40

Talk: Efimov trimers in Nuclear Physics

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Miguel Marques

09:40 – 10:20

Talk: Four-Neutron Halo Model at the Unitary Limit

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Rafael Francisco

10:50 – 11:30

Talk: Control and Scattering Properties in Dipolar Spin Mixtures

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Louis Lafforgue

11:30 – 12:10

Talk: Few-body Systems under Spatial Confinement

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Alejandro Saenz

14:00 – 14:20

Talk: Entanglement in few-particle scattering

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Tanja Kirchner

14:20 – 14:40

Talk: The monopole resonance in Helium-4

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Vittorio Barlucchi

14:40 – 15:00

Talk: Electromagnetic response of open-shell nuclei from coupled-cluster

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Francesco Marino

15:30 – 15:50

Talk: Radiative Corrections in Few-Nucleon Systems via the Renormalization Group

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Immo Christopher Reis

15:50

Talk: Towards an EFT description of alpha clustering in nuclei

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Matus Rojik

16:10

16:10

Talk: Reconstructing the dipole response function for neutron-rich nuclei

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Miriam El Batchy

16:30

Thursday 22 October

09:00 – 09:40

Talk: The simple geometry of all charm tetraquark resonances

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Pedro Bicudo

09:40 – 10:20

Talk: Femtoscopy as a probe of hadronic interactions at the LHC

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Raffaele Del Grande

10:50 – 11:30

Talk: Correlation functions as a probe for interactions - studies in nucleon-nucleon and nucleon-hyperon systems

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Matthias Goebel

11:30 – 12:10

Talk: Three-body scattering wave functions and three-body correlation functions

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Eduardo Garrido

14:20 – 15:00

Talk: Collisions in hypernuclear three-body systems

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Arnas Deltuva

15:30 – 16:10

Talk: Quantum few-body systems with a quantum toolbox

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Thomas Richardson

16:10 – 16:50

Talk: Nuclear model with explicit mesons

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Dmitri Fedorov

16:50 – 17:50

Talk: Discussion Session

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz

Friday 23 October

09:00 – 09:40

Talk: Pentamer of 4He and universality

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Emiko Hiyama

09:40 – 10:20

Talk: Interplay between Coulomb and nuclear forces in muonic and antiprotonic few-body systems

Session |
Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz |
Convener: Renat Sultanov

10:50 – 11:50

Talk: Closing

Session |
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