14th ITP/CAS–BLTP/JINR Joint Workshop on Physics of Strong Interacting Systems

Report of Contributions

https://indico.itp.ac.cn/e/426

Contribution ID : **54** Type : **not specified**

Non-renormalizable theories: from weak interactions to cosmology

Monday, 19 October 2026 09:15 (15)

Presenter(s) : KAZAKOV, Dmitry

Contribution ID : **55** Type : **not specified**

Quantum chirality

Monday, 19 October 2026 09:35 (15)

Presenter(s) : MENG, Jie

Contribution ID : **58** Type : **not specified**

Nucleon-pair approximation of the nuclear shell model

Monday, 19 October 2026 09:55 (15)

Presenter(s) : ZHAO, YuMin

Contribution ID : **61** Type : **not specified**

Microscopic analysis of scissor mode in ^{254}No

Monday, 19 October 2026 10:15 (15)

Presenter(s) : NESTERENKO, Valentin

Contribution ID : **64** Type : **not specified**

SHE studies at the gas-filled recoil separators in IMP

Monday, 19 October 2026 11:00 (15)

Presenter(s) : ZHANG, ZhiYuan

Contribution ID : **67** Type : **not specified**

Wigner's SU(4) spin-isospin symmetry and MNT & fragmentation nuclear reactions

Monday, 19 October 2026 11:40 (15)

Presenter(s) : IZOSIMOV, Igor

Contribution ID : **68** Type : **not specified**

Emergence of the nuclear halo in C-22: bridging shape and shell

Monday, 19 October 2026 12:00 (15)

Presenter(s) : SUN, XiangXiang

Contribution ID : **69** Type : **not specified**

Exotic structure and mirror symmetry breaking of dripline nuclei

Monday, 19 October 2026 12:20 (15)

Presenter(s) : XU, ZhiCheng

Contribution ID : **70** Type : **not specified**

Exotic nuclear shapes: from structure to dynamics

Monday, 19 October 2026 14:00 (15)

Presenter(s) : ZHAO, PengWei

Contribution ID : **71** Type : **not specified**

Investigation of the reaction $^{40}Ca + {}^{175}Lu \longrightarrow {}^{215}Pa^{*}$ and new isotope ^{210}Pa

Monday, 19 October 2026 14:20 (15)

Presenter(s) : ZHANG, MingMing

Contribution ID : **72** Type : **not specified**

Quantum entanglement in the nuclear collective motion

Monday, 19 October 2026 14:40 (15)

Presenter(s) : CHEN, QiBo

Contribution ID : **73** Type : **not specified**

Spin teleportation of protons at the MeV scale

Monday, 19 October 2026 15:00 (15)

Presenter(s) : BAI, Dong

Contribution ID : **74** Type : **not specified**

Probing variations of fundamental constants with hyperfine electronic bridge transitions in ^{229}Th

Monday, 19 October 2026 15:20 (15)

Presenter(s) : WANG, Wu

Contribution ID : **75** Type : **not specified**

Dinuclear system model in description of alpha-decay and spontaneous fission processes

Monday, 19 October 2026 16:10 (15)

Presenter(s) : ROGOV, Ivan

Contribution ID : **76** Type : **not specified**

Exploring novel cluster structures in light nuclei

Monday, 19 October 2026 16:30 (15)

Presenter(s) : ZHOU, Bo

Contribution ID : **77** Type : **not specified**

Toward a dinuclear-system description of cluster states in medium-mass N ≈ Z nuclei

Monday, 19 October 2026 16:50 (15)

Presenter(s) : RAHMATINEJAD, Azam

Contribution ID : **78** Type : **not specified**

Cluster degrees of freedom in nuclear structure and decay

Monday, 19 October 2026 17:10 (15)

Presenter(s) : QIAN, YiBin

Contribution ID : **79** Type : **not specified**

Analysis of alpha-decay chains of elements 119 and 120 in the two-center shell model: competition between allowed and forbidden transitions

Monday, 19 October 2026 17:30 (15)

Presenter(s) : BEZBAKH, Anna

Contribution ID : **80** Type : **not specified**

Calculations of alpha decay and cluster decay half-lives for heavy and superheavy nuclei

Monday, 19 October 2026 17:50 (15)

Presenter(s) : WANG, Zhen

Contribution ID : **81** Type : **not specified**

Systematic study of capture and evaporation residue cross sections

Tuesday, 20 October 2026 08:30 (15)

Presenter(s) : WANG, Ning

Contribution ID : **82** Type : **not specified**

Study of reaction mechanism of weakly bound nuclei at energies around Coulomb barrier

Tuesday, 20 October 2026 08:50 (15)

Presenter(s) : ZHANG, GaoLong

Contribution ID : **83** Type : **not specified**

Study of quantum tunneling behavior in nuclear reactions based on the coupled-channels model

Tuesday, 20 October 2026 09:30 (15)

Presenter(s) : WEN, PeiWei

Contribution ID : **84** Type : **not specified**

Multinucleon transfer reactions with relativistic TDDFT

Tuesday, 20 October 2026 10:10 (15)

Presenter(s) : ZHANG, DanDan

Contribution ID : **85** Type : **not specified**

Theoretical proof of the Strutinsky energy theorem, foundations of nuclear DFT and future applications

Tuesday, 20 October 2026 11:00 (15)

Presenter(s) : QI, Chong

Contribution ID : **86** Type : **not specified**

Collectivity and shape coexistence in A = 120 proton-rich nuclei

Tuesday, 20 October 2026 11:20 (15)

Presenter(s) : PETRACHE, Costel

Contribution ID : **87** Type : **not specified**

A microscopic shell-model counterpart of the particle-core-type models: the low-lying rotational bands in ^{163}Dy

Tuesday, 20 October 2026 11:40 (15)

Presenter(s) : GANEV, Huben

Contribution ID : **88** Type : **not specified**

Structure of ^{233}Th in octupole core-quasiparticle coupling model

Tuesday, 20 October 2026 12:20 (10)

Presenter(s) : CHEN, YeRuoXi

Contribution ID : **89** Type : **not specified**

Gamow-Teller transitions in N = Z nuclei and electron capture rates in rp process

Tuesday, 20 October 2026 14:00 (15)

Presenter(s) : SAGAWA, Hiroyuki

Contribution ID : **90** Type : **not specified**

Origin of elements: from the Big-Bang to stellar explosions

Tuesday, 20 October 2026 14:20 (15)

Presenter(s) : KAJINO, Taka

Contribution ID : **91** Type : **not specified**

Gamow-Teller transition studies within quasiparticle phonon model

Tuesday, 20 October 2026 14:40 (15)

Presenter(s) : SEVERYUKHIN, Alexey

Contribution ID : **92** Type : **not specified**

Dark matter and its impact on the scaling relation in neutron stars

Tuesday, 20 October 2026 15:00 (15)

Presenter(s) : JIANG, WeiZhou

Contribution ID : **93** Type : **not specified**

Gamow shell model studies of selected radiative-capture reactions in nuclear astrophysics

Tuesday, 20 October 2026 15:20 (15)

Presenter(s) : WANG, XiaoBao

Contribution ID : **94** Type : **not specified**

Isoenergetic description of induced fission pathways within energy-density functional theory

Tuesday, 20 October 2026 16:10 (15)

Presenter(s) : DZHIOEV, Alan

Contribution ID : **95** Type : **not specified**

Description of correlations between fission observables in the spontaneous fission of ^{252}Cf

Tuesday, 20 October 2026 16:30 (15)

Presenter(s) : SHNEIDMAN, Timur

Contribution ID : **96** Type : **not specified**

Stochastic approach to superheavy-nucleus fission within the dinuclear system concept

Tuesday, 20 October 2026 16:50 (15)

Presenter(s) : ANDREEV, Alexander

Contribution ID : **97** Type : **not specified**

Systematic analysis of input parameters for the synthesis of superheavy nuclei based on DNS model

Tuesday, 20 October 2026 17:10 (15)

Presenter(s) : LI, JingJing

Contribution ID : **98** Type : **not specified**

Isotopic trends in fission thresholds for Z = 114 and Z = 120 nuclei

Tuesday, 20 October 2026 17:30 (15)

Presenter(s) : MARDYBAN, Evgenii

Contribution ID : **99** Type : **not specified**

Properties and synthesis of magnetized heavy nuclei

Tuesday, 20 October 2026 17:50 (15)

Presenter(s) : KONDRATYEV, Vladimir

Contribution ID : **100** Type : **not specified**

Induced decay of binary fission fragments during their passage through a solid foil

Tuesday, 20 October 2026 19:30 (10)

Presenter(s) : OTAKHONOV, Farrukh

Contribution ID : **101** Type : **not specified**

Role of the scission-line structure in the formation of the fragment-mass distribution in ^{180}Hg fission

Tuesday, 20 October 2026 19:45 (10)

Presenter(s) : LIU, JinTian

Contribution ID : **102** Type : **not specified**

Shell structure and spontaneous decay of superheavy Z = 124 isotopes with the deformed relativistic Hartree-Bogoliubov theory in continuum

Tuesday, 20 October 2026 20:00 (10)

Presenter(s) : WANG, YuMeng

Contribution ID : **103** Type : **not specified**

Systematic study on fusion evaporation reactions induced by $^{48}Ca–^{55}Mn$ projectiles

Tuesday, 20 October 2026 20:15 (10)

Presenter(s) : LIU, HaoYu

Contribution ID : **104** Type : **not specified**

Preequilibrium cluster emission and systematics on the formation cross sections of superheavy nuclei (SHN)

Tuesday, 20 October 2026 20:30 (10)

Presenter(s) : WANG, ZiHan

Contribution ID : **105** Type : **not specified**

Moment of inertia of strongly deformed configuration

Tuesday, 20 October 2026 21:05 (10)

Presenter(s) : DEMENTEV, Igor

Contribution ID : **106** Type : **not specified**

Effective range expansion with the left-hand cut: higher order improvements

Tuesday, 20 October 2026 21:20 (10)

Presenter(s) : WANG, WenJia

Contribution ID : **107** Type : **not specified**

Ab initio correlations between two-neutrino and neutrinoless double-beta decays in ^{48}Ca

Tuesday, 20 October 2026 21:35 (10)

Presenter(s) : LIAN, Xin

Contribution ID : **108** Type : **not specified**

Shell effects on the equation of state of the neutron-star crust

Tuesday, 20 October 2026 21:50 (10)

Presenter(s) : REN, XiaoYang

Contribution ID : **109** Type : **not specified**

Vortical and accelerated medium heavy-ion collisions within the NICA energy range and hyperon polarization

Wednesday, 21 October 2026 08:30 (15)

Presenter(s) : KOLOMEITSEV, Evgeni

Contribution ID : **110** Type : **not specified**

Vortex nucleon-nucleon scattering

Wednesday, 21 October 2026 08:50 (15)

Presenter(s) : HU, JinNiu

Contribution ID : **111** Type : **not specified**

In-medium effect on the NN cross section in HICs at intermediate energies

Wednesday, 21 October 2026 09:50 (15)

Presenter(s) : LI, PengCheng

Contribution ID : **112** Type : **not specified**

Meson-baryon interactions in covariant ChEFT

Wednesday, 21 October 2026 10:10 (15)

Presenter(s) : REN, XiuLei

Contribution ID : **113** Type : **not specified**

Renormalon-chain contributions to two-point correlators of nonlocal quark currents and light-meson distribution amplitudes

Wednesday, 21 October 2026 11:00 (15)

Presenter(s) : VOLCHANSKIY, Nikolay

Contribution ID : **114** Type : **not specified**

Processes of meson production in electron-positron annihilation and tau-decays within the NJL model

Wednesday, 21 October 2026 11:20 (15)

Presenter(s) : NURLAN, Kanat

Contribution ID : **115** Type : **not specified**

Beam asymmetries of pi(0)eta photoproduction off protons in the energy region of 1.3-2.4 GeV

Wednesday, 21 October 2026 11:40 (15)

Presenter(s) : HE, QingHua

Contribution ID : **116** Type : **not specified**

Nuclear contacts and their scaling with nuclear radii

Wednesday, 21 October 2026 12:00 (15)

Presenter(s) : LIANG, TongQi

Contribution ID : **117** Type : **not specified**

Predictions of nuclear charge radii with a physics-information machine learning approach

Wednesday, 21 October 2026 12:20 (10)

Presenter(s) : LI, WeiFeng

Contribution ID : **118** Type : **not specified**

Cumulative proton production in relativistic proton-deuteron collisions

Wednesday, 21 October 2026 14:00 (15)

Presenter(s) : LARIONOV, Alexey

Contribution ID : **119** Type : **not specified**

Pion off-shell form factors in the Bethe-Salpeter approach

Wednesday, 21 October 2026 14:20 (15)

Presenter(s) : BONDARENKO, Serge

Contribution ID : **120** Type : **not specified**

Electric dipole moments of nucleons, deuterons and hyperons induced by CP violating couplings of pseudoscalar mesons.

Wednesday, 21 October 2026 14:40 (15)

Presenter(s) : ZHEVLAKOV, Alexey

Contribution ID : **121** Type : **not specified**

Rare B meson decays

Wednesday, 21 October 2026 15:00 (15)

Presenter(s) : ISSADYKOV, Aidos

Contribution ID : **122** Type : **not specified**

Relativistic Hartree-Fock theory and recent progresses

Wednesday, 21 October 2026 16:05 (15)

Presenter(s) : LONG, WenHui

Contribution ID : **123** Type : **not specified**

Microscopic approaches to the nuclear level density in relativistic density functional theory

Wednesday, 21 October 2026 16:25 (15)

Presenter(s) : LI, Jian

Contribution ID : **124** Type : **not specified**

Radiative corrections in inverse beta decay at low energies

Wednesday, 21 October 2026 16:45 (15)

Presenter(s) : TOMALAK, Sasha

Contribution ID : **125** Type : **not specified**

Can octupole vibrations on the fine structure of the ISGMR in ^{208}Pb enrich its energy scales?

Wednesday, 21 October 2026 17:05 (15)

Presenter(s) : USMAN, Iyabo

Contribution ID : **126** Type : **not specified**

Deformed neutron halo nuclei and soft dipole excitations in the 40 < A < 90 mass region

Wednesday, 21 October 2026 17:25 (15)

Presenter(s) : LU, Xiao

Contribution ID : **127** Type : **not specified**

E1 and M1 strength in Ni isotopes within continuum QRPA

Wednesday, 21 October 2026 17:45 (10)

Presenter(s) : LI, WanHui

Contribution ID : **128** Type : **not specified**

Flatness of landscape near the “island of stability” of superheavy nuclei

Wednesday, 21 October 2026 18:00 (10)

Presenter(s) : JIANG, YiMing

Contribution ID : **129** Type : **not specified**

Are highly excited nuclear states merely chaotic?

Thursday, 22 October 2026 09:45 (15)

Presenter(s) : SUN, Yang

Contribution ID : **130** Type : **not specified**

Advances in mass measurements of exotic nuclei: from CSRe to SRing

Thursday, 22 October 2026 10:05 (15)

Presenter(s) : XING, YuanMing

Contribution ID : **131** Type : **not specified**

Systematic ground-state energy-level inversions across the N = 79 and N = 81 isotonic chains

Thursday, 22 October 2026 10:25 (15)

Presenter(s) : WANG, HanKui

Contribution ID : **132** Type : **not specified**

Schottky mass and decay spectroscopy of exotic nuclei at HIAF-SRing

Thursday, 22 October 2026 11:05 (15)

Presenter(s) : WANG, Qian

Contribution ID : **133** Type : **not specified**

QCD in the chiral SU(3) limit from baryon masses on lattice QCD ensembles

Thursday, 22 October 2026 11:25 (15)

Presenter(s) : HEO, Yonggoo

Contribution ID : **134** Type : **not specified**

First mass measurements of short-lived nuclei with isochronous mass spectrometry at HIAF-SRing

Monday, 19 October 2026 11:20 (15)

Presenter(s) : LI, HongFu

Contribution ID : **135** Type : **not specified**

Revisit the multi-nucleon transfers in $^{12}C + ^{208}Bi$ near the Coulomb barrier

Tuesday, 20 October 2026 09:10 (15)

Presenter(s) : JIA, HuiMing

Contribution ID : **136** Type : **not specified**

First-chance fission and nuclear dissipation

Tuesday, 20 October 2026 09:50 (15)

Presenter(s) : YE, Wei

Contribution ID : **137** Type : **not specified**

Empirical constraints on microscopic nuclear structure in A~250 mass region

Tuesday, 20 October 2026 12:00 (15)

Presenter(s) : DADWAL, Anshul

Contribution ID : **138** Type : **not specified**

Fine structure of giant resonances: I. Isoscalar giant monopole resonance

Wednesday, 21 October 2026 09:10 (15)

Presenter(s) : ARSENYEV, Nikolay

Contribution ID : **139** Type : **not specified**

The reactions dd → ddππ and pd → pdππ and dibaryon resonances

Wednesday, 21 October 2026 09:30 (15)

Presenter(s) : UZIKOV, Yury

Contribution ID : **140** Type : **not specified**

Skyrme-type energy density functional with surface-peaked effective mass

Wednesday, 21 October 2026 15:20 (10)

Presenter(s) : SMOLIANNIKOV, Dmitrij

Contribution ID : **141** Type : **not specified**

Research on nuclear cluster states based on generative models

Thursday, 22 October 2026 10:45 (15)

Presenter(s) : LYU, MengJiao

Contribution ID : **142** Type : **not specified**

Gamma de-excitation of ^{90m}Zr isomer

Thursday, 22 October 2026 11:45 (10)

Presenter(s) : KOSAREV, Mikhail