Exploring nuclear physics across energy scales 2024: intersection between nuclear structure and high energy nuclear collisions

Report of Contributions

Heavy-ion collisions and nuclea \boxtimes ...

Contribution ID: 1

Type: not specified

Heavy-ion collisions and nuclear structure.

Monday, 15 April 2024 10:00 (1 hour)

Chair: Yu-Xin Liu

Presenter: BLAIZOT, Jean-Paul

Collective phenomena in atomi \boxtimes ...

Contribution ID: 2

Type: not specified

Collective phenomena in atomic nuclei. Status and modern challenges.

Monday, 15 April 2024 14:30 (1 hour)

Chair: Jie Meng

Presenter: RING, Peter

Ab initio description of deformed...

Contribution ID: 3

Type: not specified

Ab initio description of deformed intermediate-mass nuclei.

Tuesday, 16 April 2024 10:00 (1 hour)

Chair: Shan-Gui Zhou

Presenter: BALLY, Benjamin

Probing Structure of nuclei availa⊠...

Contribution ID: 4

Type: not specified

Probing Structure of nuclei available at relativistic heavy ion colliders.

Tuesday, 16 April 2024 14:30 (1 hour)

Chair: Huang Mei

Presenter: JIA, Jiangyong (Stony Brook University)

Exploring nucle \square ... / Report of Contributions

NLEFT-Introduction and Perspec⊠...

Contribution ID: 5

Type: not specified

NLEFT-Introduction and Perspectives.

Wednesday, 17 April 2024 10:00 (1 hour)

Chair: Bing-Song Zou

Presenter: MEISSNER, Ulf-G. (Universitaet Bonn and Forschungszentrum Juelich)

Probing nuclear deformation in $r\boxtimes$...

Contribution ID: 6

Type: not specified

Probing nuclear deformation in relativistic heavy ion collisions.

Wednesday, 17 April 2024 14:30 (1 hour)

Presenter: GIULIANO, Giacalone

Exploring nucle \boxtimes ... / Report of Contributions

Overview for nuclear exotic defo⊠...

Contribution ID: 7

Type: not specified

Overview for nuclear exotic deformation.

Thursday, 18 April 2024 10:00 (1 hour)

Chair: Zhong-Zhou Ren

Presenter: VRETENAR, Dario (U)

Constraining symmetry energy t⊠...

Contribution ID: 8

Type: not specified

Constraining symmetry energy from heavy-ion collisions.

Thursday, 18 April 2024 14:30 (1 hour)

Chair: De-Fu Hou

Presenter: XIAO, Zhi-Gan

Exploring nucle \boxtimes ... / Report of Contributions

Heavy ion collisions in the era of ...

Contribution ID: 9

Type: not specified

Heavy ion collisions in the era of Bayesian analyses.

Friday, 19 April 2024 10:00 (1 hour)

Chair: Zhenyu Chen

Presenter: NIJS, Govert (CERN)

Nuclear structure in the era of $Ba\boxtimes$...

Contribution ID: 10

Type: not specified

Nuclear structure in the era of Bayesian analyses.

Friday, 19 April 2024 14:30 (1 hour)

Presenter: GODBEY, Kyle

Overview of nuclear deformation ...

Contribution ID: 11

Type: not specified

Overview of nuclear deformation and shape coexistence.

Wednesday, 24 April 2024 10:00 (1 hour)

Chair: Fu-Rong Xu

Presenter: ZIELINSKA, Magda (CEA Saclay)

Exploring nucle \square ... / Report of Contributions

Bayesian analysis for Nuclear str⊠...

Contribution ID: 12

Type: not specified

Bayesian analysis for Nuclear structure.

Wednesday, 24 April 2024 14:30 (1 hour)

Chair: Feng-Shou Zhang

Presenter: ZHANG, Xi-Lin

Probing nuclear charge and mas⊠...

Contribution ID: 13

Type: not specified

Probing nuclear charge and mass radii in UPC.

Thursday, 25 April 2024 10:00 (1 hour)

Presenter: XU, Zhangbu (BNL)

Neutron Skin and Its ties to Nucl⊠...

Contribution ID: 14

Type: not specified

Neutron Skin and Its ties to Nuclear Equation of State.

Thursday, 25 April 2024 14:30 (1 hour)

Chair: Li-Sheng Geng

Presenter: DANIELEWICZ, Pawel (Michigan State University)

Physics opportunities with SMOG2.

Contribution ID: 15

Type: not specified

Physics opportunities with SMOG2.

Friday, 26 April 2024 10:00 (1 hour)

Presenter: GRAZIANI, Giacomo (I)

Nuclear structure/deformation fr \boxtimes ...

Contribution ID: 16

Type: not specified

Nuclear structure/deformation from laser spectroscopy.

Friday, 26 April 2024 14:30 (1 hour)

Chair: Yan-Lin Ye

Presenter: YANG, Xiaofei

Machine learning & explore nucl⊠...

Contribution ID: 17

Type: not specified

Machine learning & explore nuclear structure with heavy ion collisions.

Saturday, 27 April 2024 10:00 (1 hour)

Chair Jun-Chen Pei

Presenter: PANG, LongGang (Central China Normal University)

Advances in ab initio nuclear stru⊠...

Contribution ID: 18

Type: not specified

Advances in ab initio nuclear structure calculations based on MSRG method & neutrinoless double beta decay.

Saturday, 27 April 2024 14:30 (1 hour)

Chair: Bao-hua Sun

Presenter: YAO, Jiang-Ming

Exploring nucle $\boxtimes \dots \ /$ Report of Contributions

QGP overview (theory)

Contribution ID: 19

Type: not specified

QGP overview (theory)

Sunday, 21 April 2024 09:00 (30 minutes)

Chair: Yu-Xin Liu

Presenter: WANG, Xin-Nian (Central China Normal University/Lawrence Berkeley National Laboratory)

Overview for Relativistic Heavy I⊠...

Contribution ID: 20

Type: not specified

Overview for Relativistic Heavy Ion Collisions.

Sunday, 21 April 2024 09:30 (30 minutes)

Chair: Yu-Xin Liu

Presenter: STOECKER, Horst

Exploring nucle \boxtimes ... / Report of Contributions

Nuclear shapes within shell model.

Contribution ID: 21

Type: not specified

Nuclear shapes within shell model.

Sunday, 21 April 2024 10:00 (30 minutes)

Chair: Yu-Xin Liu

Presenter: OTSUKA, Takaharu

Exploring nucle $\boxtimes \dots \ /$ Report of Contributions

Coffee Break

Contribution ID: 22

Type: not specified

Coffee Break

Emergence of nuclear clustering in ...

Contribution ID: 23

Type: not specified

Emergence of nuclear clustering in ab initio nuclear theory.

Sunday, 21 April 2024 11:00 (30 minutes)

Chair Peng-Fei Zhuang

Presenter: LEE, Dean (Michigan State University)

O+O and impact of clustering in ...

Contribution ID: 24

Type: not specified

O+O and impact of clustering in high-energy collisions.

Sunday, 21 April 2024 11:30 (30 minutes)

Chair Peng-Fei Zhuang

Presenter: VAN DER SCHEE, Wilke

Exploring nucle \boxtimes ... / Report of Contributions

Using the LHC as a nuclear physics ...

Contribution ID: 25

Type: not specified

Using the LHC as a nuclear physics machine.

Sunday, 21 April 2024 14:00 (30 minutes)

Chair: Feng Liu

Presenter: ZHOU, You (Niels Bohr Institute)

Exploring nucle \square ... / Report of Contributions

Heavy ion experimental signatur⊠...

Contribution ID: 26

Type: not specified

Heavy ion experimental signatures of nuclear deformation.

Sunday, 21 April 2024 14:30 (30 minutes)

Chair: Feng Liu

Presenter: ZHANG, Chunjian

Exploring nuclear structure with...

Contribution ID: 27

Type: not specified

Exploring nuclear structure with heavy ion collisions.

Sunday, 21 April 2024 15:00 (30 minutes)

Chair: Feng Liu

Presenter: SONG, Huichao

New ions operation in the CERN \neg ...

Contribution ID: 28

Type: not specified

New ions operation in the CERN¬ Accelerator Complex in future LHC.

Sunday, 21 April 2024 16:00 (30 minutes)

Chair: Yu-Hu Zhang

Presenter: SLUPECKI, Maciej

Exploring nucle \boxtimes ... / Report of Contributions

Potential nuclear physics study at ...

Contribution ID: 29

Type: not specified

Potential nuclear physics study at HIAF.

Sunday, 21 April 2024 16:30 (30 minutes)

Chair: Yu-Hu Zhang

Presenter: WANG, Meng

Discussion

Contribution ID: 30

Type: not specified

Discussion

Sunday, 21 April 2024 17:00 (1 hour)

Chair: Yu-Hu Zhang

Presenter: JIA, Jiangyong

Exploring nucle \square ... / Report of Contributions

Theoretical approaches for nuclear ...

Contribution ID: 31

Type: not specified

Theoretical approaches for nuclear clustering.

Monday, 22 April 2024 09:00 (30 minutes)

Chair: Dai-Cui Zhou

Presenter: KIMURA, Masaaki

Exotic nuclear shapes at low and ...

Contribution ID: 32

Type: not specified

Exotic nuclear shapes at low and high excitations emerged with shell- model configuration mixing.

Monday, 22 April 2024 09:30 (30 minutes)

Chair: Dai-Cui Zhou

Presenter: SUN, Yang

Impact of nuclear shapes in low-...

Contribution ID: 33

Type: not specified

Impact of nuclear shapes in low-energy nuclear reactions.

Monday, 22 April 2024 10:00 (30 minutes)

Chair: Dai-Cui Zhou

Presenter: HAGINO, Kouichi

Neutron Skin and Connection the ...

Contribution ID: 34

Type: not specified

Neutron Skin and Connection the equation of state of nuclear matter.

Monday, 22 April 2024 11:00 (30 minutes)

Chair: Fu-Qiang Wang

Presenter: ROCA-MAZA, Xavier

Exploring nucle \boxtimes ... / Report of Contributions

Explore neutron skin with heavy i ...

Contribution ID: 35

Type: not specified

Explore neutron skin with heavy ion collisions.

Monday, 22 April 2024 11:30 (30 minutes)

Chair: Fu-Qiang Wang

Presenter: XU, Haojie

Hydrodynamic modeling of high-...

Contribution ID: 36

Type: not specified

Hydrodynamic modeling of high-energy nuclear collisions.

Monday, 22 April 2024 14:00 (30 minutes)

Chair: Guan-You Qin

Presenter: HIRANO, Tetsufumi

AMPT with clustering & nuclear s⊠...

Contribution ID: 37

Type: not specified

AMPT with clustering & nuclear structure effects.

Monday, 22 April 2024 14:30 (30 minutes)

Chair: Guan-You Qin

Presenter: MA, Guo-Liang

Exploring nucle \square ... / Report of Contributions

Nuclear clustering in ab initio $nu \boxtimes ...$

Contribution ID: 38

Type: not specified

Nuclear clustering in ab initio nuclear theory.

Monday, 22 April 2024 15:30 (30 minutes)

Chair: Wen-Hui Long

Presenter: LV, Bing-Nan

Alpha clustering and condensation ...

Contribution ID: 39

Type: not specified

Alpha clustering and condensation in light nuclei.

Monday, 22 April 2024 16:00 (30 minutes)

Chair: Wen-Hui Long

Presenter: ZHOU, Bo

Discussion

Contribution ID: 40

Type: not specified

Discussion

Monday, 22 April 2024 16:30 (1 hour)

Chair: Wen-Hui Long

Presenter: GIULIANO, Giacalone

Exploring nucle \square ... / Report of Contributions

High order deformation of heavy...

Contribution ID: 41

Type: not specified

High order deformation of heavy nuclei.

Tuesday, 23 April 2024 09:00 (30 minutes)

Chair: Yu-Ming Zhao

Presenter: ZHAO, Peng-Wei

Nuclear shape phase transition in ...

Contribution ID: 42

Type: not specified

Nuclear shape phase transition in relativistic density functional theory.

Tuesday, 23 April 2024 09:30 (30 minutes)

Chair: Yu-Ming Zhao

Presenter: LI, Zhipan

Algebraic model theory for nucle⊠...

Contribution ID: 43

Type: not specified

Algebraic model theory for nuclear shape phase transitions.

Tuesday, 23 April 2024 10:00 (30 minutes)

Chair: Yu-Ming Zhao

Presenter: YU, Zhang

Hydrodynamics and nuclear stru⊠...

Contribution ID: 44

Type: not specified

Hydrodynamics and nuclear structure.

Tuesday, 23 April 2024 11:00 (30 minutes)

Chair: Qun Wang

Presenter: LUZUM, Matthew

Hydrodynamics & Bayesian analysis.

Contribution ID: 45

Type: not specified

Hydrodynamics & Bayesian analysis.

Tuesday, 23 April 2024 11:30 (30 minutes)

Chair: Qun Wang

Presenter: NONAKA, Chiho

Short range correlations and $med \boxtimes ...$

Contribution ID: 46

Type: not specified

Short range correlations and medium modification in nuclei.

Tuesday, 23 April 2024 14:00 (30 minutes)

Chair: Li Yan

Presenter: YE, Zhi-Hong

EIC & nuclear structure.

Contribution ID: 47

Type: not specified

EIC & nuclear structure.

Tuesday, 23 April 2024 14:30 (30 minutes)

Chair: Li Yan

Presenter: XING, Hongxi

Nuclear Structure aspects of the n⊠...

Contribution ID: 48

Type: not specified

Nuclear Structure aspects of the neutrinoless double beta decay.

Tuesday, 23 April 2024 15:00 (30 minutes)

Chair: Li Yan

Presenter: CHANG-FENG, Jiao

Bayesian analysis for relativisti⊠...

Contribution ID: 49

Type: not specified

Bayesian analysis for relativistic heavy ion collisions.

Tuesday, 23 April 2024 16:00 (30 minutes)

Chair Huichao Song

Presenter: KE, Wei-Yao

Machine learning in nuclear phy⊠...

Contribution ID: 50

Type: not specified

Machine learning in nuclear physics at low and intermediate energies.

Tuesday, 23 April 2024 16:30 (30 minutes)

Chair Huichao Song

Presenter: ZHANG, Ying-Xun

Discussion

Contribution ID: 51

Type: not specified

Discussion

Tuesday, 23 April 2024 17:00 (1 hour)

Chair Huichao Song

Presenter: ZHOU, You (Niels Bohr Institute)