

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

Report of Contributions

Contribution ID: 1

Type: **not specified**

QGP overview (theory)

Sunday, April 21, 2024 9:00 AM (30 minutes)

Presenter: WANG, Xinnian

Session Classification: Session 1

Contribution ID: 2

Type: **not specified**

Overview for Relativistic Heavy Ion Collisions.

Sunday, April 21, 2024 9:30 AM (30 minutes)

Presenter: STOECKER, Horst

Session Classification: Session 1

Contribution ID: 3

Type: **not specified**

Nuclear shapes within shell model.

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

Presenter: OTSUKA, Takaharu

Session Classification: Session 1

Contribution ID: 4

Type: **not specified**

Emergence of nuclear clustering in ab initio nuclear theory.

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

Presenter: LEE, Dean

Session Classification: Session 2

Contribution ID: 5

Type: **not specified**

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

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

Presenter: VAN DER SCHEE , Wilke

Session Classification: Session 2

Contribution ID: 6

Type: **not specified**

Using the LHC as a nuclear physics machine.

Sunday, April 21, 2024 2:00 PM (30 minutes)

Presenter: ZHOU, You

Session Classification: Session 3

Contribution ID: 7

Type: **not specified**

Heavy ion experimental signatures of nuclear deformation.

Sunday, April 21, 2024 2:30 PM (30 minutes)

Presenter: ZHANG, Chunjian

Session Classification: Session 3

Contribution ID: 8

Type: **not specified**

Exploring nuclear structure with heavy ion collisions.

Sunday, April 21, 2024 3:00 PM (30 minutes)

Presenter: SONG, Huichao

Session Classification: Session 3

Contribution ID: 9

Type: **not specified**

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

Sunday, April 21, 2024 4:00 PM (30 minutes)

Presenter: SLUPECKI, Maciej

Session Classification: Session 4

Contribution ID: **10**

Type: **not specified**

Potential nuclear physics study at HIAF.

Sunday, April 21, 2024 4:30 PM (30 minutes)

Presenter: WANG, Meng

Session Classification: Session 4

Contribution ID: 11

Type: **not specified**

Discussion

Sunday, April 21, 2024 5:00 PM (1 hour)

Presenter: JIA, Jiangyong

Session Classification: Session 4

Contribution ID: 12

Type: **not specified**

Theoretical approaches for nuclear clustering.

Monday, April 22, 2024 9:00 AM (30 minutes)

Presenter: KIMURA, Masaaki

Session Classification: Session 5

Contribution ID: 13

Type: **not specified**

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

Monday, April 22, 2024 9:30 AM (30 minutes)

Presenter: SUN, Yang

Session Classification: Session 5

Contribution ID: 14

Type: **not specified**

Impact of nuclear shapes in low-energy nuclear reactions.

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

Presenter: HAGINO, Kouichi

Session Classification: Session 5

Contribution ID: 15

Type: **not specified**

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

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

Presenter: ROCA-MAZA, Xavier

Session Classification: Session 6

Contribution ID: 16

Type: **not specified**

Explore neutron skin with heavy ion collisions.

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

Presenter: XU, Haojie

Session Classification: Session 6

Contribution ID: 17

Type: **not specified**

Hydrodynamic modeling of high-energy nuclear collisions.

Monday, April 22, 2024 2:00 PM (30 minutes)

Presenter: HIRANO, Tetsufumi

Session Classification: Session 7

Contribution ID: 18

Type: **not specified**

AMPT with clustering & nuclear structure effects.

Monday, April 22, 2024 2:30 PM (30 minutes)

Presenter: MA, Guo-Liang

Session Classification: Session 7

Contribution ID: 19

Type: **not specified**

Nuclear clustering in ab initio nuclear theory.

Monday, April 22, 2024 3:30 PM (30 minutes)

Presenter: LV, Bing-Nan

Session Classification: Session 8

Contribution ID: 20

Type: **not specified**

Alpha clustering and condensation in light nuclei.

Monday, April 22, 2024 4:00 PM (30 minutes)

Presenter: ZHOU, Bo

Session Classification: Session 8

Contribution ID: 21

Type: **not specified**

High order deformation of heavy nuclei.

Tuesday, April 23, 2024 9:00 AM (30 minutes)

Presenter: ZHAO, Peng-Wei

Session Classification: Session 9

Contribution ID: 22

Type: **not specified**

Nuclear shape phase transition in relativistic density functional theory.

Tuesday, April 23, 2024 9:30 AM (30 minutes)

Presenter: LI, Zhipan

Session Classification: Session 9

Contribution ID: 23

Type: **not specified**

Algebraic model theory for nuclear shape phase transitions.

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

Presenter: ZHANG, Yu

Session Classification: Session 9

Contribution ID: 24

Type: **not specified**

Hydrodynamics and nuclear structure.

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

Presenter: LUZUM, Matthew

Session Classification: Session 10

Contribution ID: 25

Type: **not specified**

Hydodynamics & Bayesian analysis.

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

Presenter: NONAKA, Chiho

Session Classification: Session 10

Contribution ID: 26

Type: **not specified**

Short range correlations and medium modification in nuclei.

Tuesday, April 23, 2024 2:00 PM (30 minutes)

Presenter: YE, Zhi-Hong

Session Classification: Session 11

Contribution ID: 27

Type: **not specified**

Bayesian analysis for relativistic heavy ion collisions.

Tuesday, April 23, 2024 2:30 PM (30 minutes)

Presenter: KE, Wei-Yao

Session Classification: Session 11

Contribution ID: 28

Type: **not specified**

Machine learning in nuclear physics at low and intermediate energies.

Tuesday, April 23, 2024 3:00 PM (30 minutes)

Presenter: ZHANG, Ying-Xun

Session Classification: Session 11

Contribution ID: 29

Type: **not specified**

Nuclear Structure aspects of the neutrinoless double beta decay.

Tuesday, April 23, 2024 4:00 PM (30 minutes)

Presenter: JIAO , Chang-Feng

Session Classification: Session 12

Contribution ID: **30**

Type: **not specified**

EIC & nuclear structure

Tuesday, April 23, 2024 4:30 PM (30 minutes)

Presenter: XING, Hongxi

Session Classification: Session 12

Contribution ID: **31**

Type: **not specified**

Discussion

Tuesday, April 23, 2024 5:00 PM (1 hour)

Presenter: ZHOU, You

Session Classification: Session 12