

Frontiers in Nuclear Structure Theory

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday 23 May 2022 09:30 (10 minutes)

Presenter: CEDERWALL, Bo (KTH)

Session Classification: session 1

Contribution ID: 2

Type: **not specified**

Artificial Intelligence and Machine Learning in Nuclear Physics

Monday 23 May 2022 09:40 (35 minutes)

<https://mhjensenseminars.github.io/MachineLearningTalk/doc/pub/KTHMat23/html/KTHMat23-reveal.html>

Presenter: HJORTH-JENSEN, Morten

Session Classification: session 1

Contribution ID: 3

Type: **not specified**

Nuclear physics experiments to advance the ab initio frontier

Monday 23 May 2022 10:15 (35 minutes)

Presenter: PETRI, Marina

Session Classification: session 1

Contribution ID: 4

Type: **not specified**

Effective interactions and effective operators from the No-Core Shell Model (zoom)

Monday 23 May 2022 10:50 (35 minutes)

Presenter: SMIRNOVA, Nadezda

Session Classification: session 1

Contribution ID: 5

Type: **not specified**

Clustering effects in fission of heavy and superheavy nuclei

Monday 23 May 2022 13:30 (35 minutes)

Presenter: ÅBERG, Sven

Session Classification: session 2

Contribution ID: 6

Type: **not specified**

Recent advances in the systematics of emission processes (zoom)

Monday 23 May 2022 14:05 (35 minutes)

Presenter: DELION, Doru

Session Classification: session 2

Contribution ID: 7

Type: **not specified**

Alpha clusterization for medium and heavy nuclei from shell model (zoom)

Monday 23 May 2022 14:40 (35 minutes)

Presenter: ID BETAN, Rodolfo

Session Classification: session 2

Contribution ID: 8

Type: **not specified**

Some open questions in neutrino physics (zoom)

Wednesday 25 May 2022 13:30 (35 minutes)

Presenter: CIVITARESE, Osvaldo (Department of Physics. University of La Plata. Argentina)

Session Classification: session Wednesday afternoon

Contribution ID: 9

Type: **not specified**

Light-front three-body model of the proton and loffe-time imaging (zoom)

Wednesday 25 May 2022 14:05 (35 minutes)

Presenter: YDREFORS, Emanuel

Session Classification: session Wednesday afternoon

Contribution ID: **10**

Type: **not specified**

On the life of Jan Blomqvist

Tuesday 24 May 2022 16:20 (30 minutes)

Presenter: LIOTTA, Roberto

Session Classification: Special session to honor Professor Jan Blomqvist on the occasion of his 90th birthday.

Contribution ID: 11

Type: **not specified**

Emerging concepts in nuclear structure based on the shell model (zoom)

Tuesday 24 May 2022 10:10 (35 minutes)

Presenter: OTSUKA, Takaharu

Session Classification: Tuesday morning 1

Contribution ID: 12

Type: **not specified**

Shape Changes in Mirror Nuclei (zoom)

Tuesday 24 May 2022 09:35 (35 minutes)

Presenter: WIMMER, Kathrin

Session Classification: Tuesday morning 1

Contribution ID: 13

Type: **not specified**

Mirror symmetry breaking in nuclei near driplines (zoom)

Tuesday 24 May 2022 09:00 (35 minutes)

Presenter: XU, Furong

Session Classification: Tuesday morning 1

Contribution ID: 14

Type: **not specified**

The role of the nuclear radius in Mirror energy differences (zoom)

Tuesday 24 May 2022 11:15 (35 minutes)

Presenter: LENZI, Silvia

Session Classification: Tuesday morning 2

Contribution ID: 15

Type: **not specified**

Beta decay of proton rich $T_z = -2$ nuclei

Tuesday 24 May 2022 11:50 (35 minutes)

Presenter: RUBIO, Berta

Session Classification: Tuesday morning 2

Contribution ID: 16

Type: **not specified**

The symmetry structure of octupole phonons in nuclei (zoom)

Tuesday 24 May 2022 13:30 (35 minutes)

Presenter: VAN ISACKER, Piet

Session Classification: Tuesday afternoon

Contribution ID: 17

Type: **not specified**

Nuclear structure aspects in the 100Sn region

Tuesday 24 May 2022 14:05 (35 minutes)

Presenter: GORSKA, Magda

Session Classification: Tuesday afternoon

Contribution ID: 18

Type: **not specified**

Density Functional Theory for Nuclear Reactions

Tuesday 24 May 2022 15:45 (35 minutes)

Presenter: MAGIERSKI, Piotr

Session Classification: Tuesday afternoon

Contribution ID: **19**

Type: **not specified**

Towards microscopic optical potentials for symmetry breaking nuclei

Wednesday 25 May 2022 09:00 (35 minutes)

Presenter: CARLSSON, Gillis

Session Classification: Session Wednesday morning

Contribution ID: 20

Type: **not specified**

Proton-neutron pairing and quartet correlations in $N \approx Z$ nuclei (zoom)

Wednesday 25 May 2022 09:35 (35 minutes)

Presenter: SANDULESCU, Nicu

Session Classification: Session Wednesday morning

Contribution ID: 21

Type: **not specified**

Quarteting in $N=Z$ nuclei (zoom)

Wednesday 25 May 2022 10:10 (35 minutes)

Presenter: SAMBATARO, Michelangelo

Session Classification: Session Wednesday morning

Contribution ID: 22

Type: **not specified**

Ab initio no-core shell model study of lighter nuclei with realistic NN interactions (zoom)

Wednesday 25 May 2022 10:45 (35 minutes)

Presenter: SRIVASTAVA, Praveen

Session Classification: Session Wednesday morning

Contribution ID: 23

Type: **not specified**

Shell model applications to neutron capture reaction studies (zoom)

Monday 23 May 2022 16:20 (35 minutes)

Presenter: SEIJA, Kamila

Session Classification: session 3

Contribution ID: 24

Type: **not specified**

Collective effects in superfluid nuclei

Monday 23 May 2022 15:45 (35 minutes)

Presenter: LITVINOVA, Elena

Session Classification: session 3

Contribution ID: 25

Type: **not specified**

Neutron-proton pairing through transfer reactions (zoom)

Tuesday 24 May 2022 14:40 (35 minutes)

Presenter: ASSIÉ, Marlène

Session Classification: Tuesday afternoon

Contribution ID: 26

Type: **not specified**

Radial overlap correction to nuclear superallowed $0^+ \rightarrow 0^+$ Fermi β decays using the shell model with Hartree-Fock radial wave functions (zoom)

Monday 23 May 2022 16:55 (20 minutes)

Presenter: XAYAVONG, Latsamy (National University of Laos)

Session Classification: session 3

Contribution ID: 27

Type: **not specified**

Shell model studies in nuclear beta decay (zoom)

Wednesday 25 May 2022 14:40 (20 minutes)

Presenter: KUMAR, Anil

Session Classification: session Wednesday afternoon

Contribution ID: 28

Type: **not specified**

Algebraic description of the finite-N triaxial rotor mode

Wednesday 25 May 2022 15:00 (20 minutes)

Presenter: ZHANG, Yu

Session Classification: session Wednesday afternoon