

Advances On Giant Nuclear Monopole Excitations And Applications To Multi-Messenger Astrophysics

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Monday, 11 July 2022 09:30 (14 minutes)

Presenter: BLUMENFELD (ON-SITE), Y. (IJCLab Orsay, France)

Contribution ID: 2

Type: **not specified**

Measurements of the GMR in direct kinematics at RCNP and in unstable nuclei with the MAYA active target

Monday, 11 July 2022 09:45 (45 minutes)

Presenter: BAGCHI (REMOTE), S. (Indian Institute of Technology, Dhanbad, India)

Contribution ID: 3

Type: **not specified**

Experimental approach to Ktau using CAT-M active target and Grand Raiden spectrometer

Monday, 11 July 2022 10:30 (45 minutes)

Presenter: OTA (REMOTE), S. (RCNP, Osaka, Japan)

Contribution ID: 4

Type: **not specified**

Predictions of the GMR using QRPA calculations and the Gogny interaction

Monday, 11 July 2022 11:45 (45 minutes)

Presenter: PÉRU (ON-SITE), S. (CEA, DAM, DIF, Bruyères-le-Chatel)

Contribution ID: 5

Type: **not specified**

Self-consistent QRPA calculations for monopole and other collective modes

Monday, 11 July 2022 14:00 (45 minutes)

Presenter: YOSHIDA (REMOTE), K.

Contribution ID: 6

Type: **not specified**

Effects of beyond-mean-field correlations and finite temperature on the nuclear monopole response

Monday, 11 July 2022 14:45 (45 minutes)

Presenter: LITVINOVA (ON-SITE), E.

Contribution ID: 7

Type: **not specified**

Covariant EDF studies of monopole modes

Monday, 11 July 2022 16:00 (45 minutes)

Presenter: KHAN (ON-SITE), E.

Contribution ID: 8

Type: **not specified**

A survey of the isoscalar giant monopole resonance from medium to heavy mass nuclei at iThemba LABS

Monday, 11 July 2022 16:45 (30 minutes)

Presenter: BAHINI (REMOTE), A.

Contribution ID: 9

Type: **not specified**

Nuclear incompressibility within RHF approaches

Monday, 11 July 2022 17:15 (20 minutes)

Presenter: CHAMSEDDINE (REMOTE), M.

Contribution ID: 10

Type: **not specified**

A Giant Monopole Resonance tale: there and back again between experimental and theoretical results within Gogny HFB + QRPA

Presenter: BATAIL (ON-SITE), L.

Contribution ID: **11**

Type: **not specified**

Measurements of compression modes with radioactive ion beams techniques and perspectives

Tuesday, 12 July 2022 09:30 (45 minutes)

Presenter: RAABE (ON-SITE), R.

Contribution ID: 12

Type: **not specified**

Investigating the Isoscalar Giant Monopole Resonance in Ni-70 using the Active-Target Time-Projection Chamber and S800 Spectrometer

Tuesday, 12 July 2022 10:15 (45 minutes)

Presenter: AHN (ON-SITE), T.

Contribution ID: 13

Type: **not specified**

First results from the ACTAR experiment at GANIL

Tuesday, 12 July 2022 11:30 (20 minutes)

Presenter: THISSE (ON-SITE), D.

Contribution ID: 14

Type: **not specified**

Recent extensions of the Second RPA method and its applications to soft monopole modes

Tuesday, 12 July 2022 14:00 (45 minutes)

Presenter: GAMBACURTA (ON-SITE), D.

Contribution ID: 15

Type: **not specified**

Low energy monopole strength: A novel approach to the astrophysical fusion reactions

Tuesday, 12 July 2022 14:45 (45 minutes)

Presenter: KIMURA (REMOTE), M.

Contribution ID: 16

Type: **not specified**

Round table Experimental studies of the GMR (M. Harakeh, chair)

Tuesday, 12 July 2022 16:00 (1h 15m)

Contribution ID: 17

Type: **not specified**

Giant monopole resonance in Molybdenum nuclei: role of deformation

Wednesday, 13 July 2022 09:35 (45 minutes)

Presenter: PASTORE (REMOTE), A.

Contribution ID: **18**

Type: **not specified**

Isoscalar giant monopole resonance in ^{24}Mg and ^{28}Si : Effect of coupling between the isoscalar monopole and quadrupole streng

Wednesday, 13 July 2022 10:20 (45 minutes)

Presenter: USMAN (REMOTE), L.

Contribution ID: **19**

Type: **not specified**

Bayesian inferences of nuclear EOS from heavy-ion reactions, giant resonances and neutron stars

Wednesday, 13 July 2022 11:30 (45 minutes)

Presenter: LI (ON-SITE), B.

Contribution ID: 20

Type: **not specified**

Round table Theory (H. Sagawa, chair)

Wednesday, 13 July 2022 14:00 (1h 15m)

Presenter: SAGAWA, CHAIR (ON-SITE), H.

Contribution ID: 21

Type: **not specified**

Nuclear incompressibility and sound speed in uniform matter and finite nuclei, impact for neutron stars.

Thursday, 14 July 2022 09:30 (45 minutes)

Presenter: MARGUERON (REMOTE), J.

Contribution ID: 22

Type: **not specified**

Nuclear compressibility and EOS impact on compact star modelling

Thursday, 14 July 2022 10:15 (45 minutes)

Presenter: FANTINA (ON-SITE), A.

Contribution ID: 23

Type: **not specified**

EOS influence on neutron star mergers

Thursday, 14 July 2022 11:30 (45 minutes)

Presenter: BAUSWEIN (REMOTE), A.

Contribution ID: 24

Type: **not specified**

Nuclear Equation of State and Neutron Star Mergers

Thursday, 14 July 2022 14:00 (45 minutes)

Presenter: STEINER (REMOTE), A.

Contribution ID: 25

Type: **not specified**

Constraining the tidal deformability from terrestrial data.

Thursday, 14 July 2022 14:45 (45 minutes)

Presenter: AGRAWAL (REMOTE), B.

Contribution ID: 26

Type: **not specified**

Connections between the GMR, the LIGO measurements, and results from PREX II

Thursday, 14 July 2022 16:00 (45 minutes)

Presenter: PIEKAREWICZ (REMOTE), J.

Contribution ID: 27

Type: **not specified**

Round Table Applications to multi-messenger Astrophysics (J. Margueron, chair)

Thursday, 14 July 2022 16:45 (1h 15m)

Presenter: MARGUERON, CHAIR (REMOTE), J.

Contribution ID: 28

Type: **not specified**

Ab-initio description of monopole resonances in light- and medium-mass nuclei

Friday, 15 July 2022 09:30 (45 minutes)

Presenter: PORRO (ON-SITE), A.

Contribution ID: 29

Type: **not specified**

Experimental Techniques for Investigation of Giant Resonances in Inverse Kinematics

Friday, 15 July 2022 10:15 (45 minutes)

Presenter: ZAMORA (REMOTE), J.

Contribution ID: 30

Type: **not specified**

Round table Future (E. Khan, chair)

Friday, 15 July 2022 11:30 (1 hour)

Presenter: KHAN, CHAIR (IN-PERSON), E.

Contribution ID: **31**

Type: **not specified**

Introduction ECT* Director

Wednesday, 13 July 2022 09:30 (4 minutes)

Presenter: AARTS, Gert

Contribution ID: 32

Type: **not specified**

Chair: Umesh Garg

Monday, 11 July 2022 09:44 (1 minute)

Contribution ID: 33

Type: **not specified**

Chair: Hiroyuki Sagawa

Monday, 11 July 2022 13:59 (1 minute)

Contribution ID: 34

Type: **not specified**

Chair: Muhsin Harakeh

Tuesday, 12 July 2022 09:29 (1 minute)

Contribution ID: 35

Type: **not specified**

Chair: Gianluca Colò

Tuesday, 12 July 2022 13:59 (1 minute)

Contribution ID: 36

Type: **not specified**

Chair: Elena Litvinova

Wednesday, 13 July 2022 09:34 (1 minute)

Contribution ID: 37

Type: **not specified**

Chair: Bao-An Li

Thursday, 14 July 2022 09:29 (1 minute)

Contribution ID: **38**

Type: **not specified**

Chair: Anthea Fantina

Thursday, 14 July 2022 13:59 (1 minute)

Contribution ID: 39

Type: **not specified**

Chair: Yorick Blumenfeld

Friday, 15 July 2022 09:29 (1 minute)

Contribution ID: 40

Type: **not specified**

A Giant Monopole Resonance tale: there and back again between experimental and theoretical results within Gogny HFB + QRPA

Tuesday, 12 July 2022 11:50 (40 minutes)

Presenter: BATAIL, L.