Giant and soft modes of excitation in nuclear structure and astrophysics

Report of Contributions

Contribution ID: 1 Type: not specified

Giant and pigmy modes from coupled-cluster theory

Tuesday, 25 October 2022 11:30 (45 minutes)

Presenter: BACCA, Sonia

Session Classification: Morning Session 2

Contribution ID: 2 Type: not specified

Heavy ion double charge exchange reactions and their role in probing double beta decay nuclear matrix elements

Wednesday, 26 October 2022 10:00 (45 minutes)

Presenter: BELLONE, Jessica (University of Catania and INFN-LNS)

Session Classification: Morning session 3

Contribution ID: 3 Type: not specified

Recent studies on the dipole excitations within the Subtracted Second RPA

Thursday, 27 October 2022 15:00 (45 minutes)

Presenter: GAMBACURTA, Danilo (INFN-LNS)

Session Classification: Afternoon Session 4

Contribution ID: 4 Type: **not specified**

A short review on Pygmy Resonances: open problems

Monday, 24 October 2022 10:05 (45 minutes)

Presenter: LANZA, Edoardo G. (INFN - Sezione di Catania)

Session Classification: Morning Session 1

Contribution ID: 5 Type: **not specified**

Investigation of low-lying dipole strengths using real photonscattering experiments

Tuesday, 25 October 2022 17:00 (35 minutes)

Presenter: MÜSCHER, Miriam (University of Cologne)

Session Classification: Afternoon Session 2

Contribution ID: 6 Type: **not specified**

Constraining energy density functionals with dipole excitations and parity-violating electron scattering experiments

Wednesday, 26 October 2022 15:00 (45 minutes)

Presenter: PAAR, Nils (Faculty of Science University of Zagreb)

Session Classification: Afternoon Session 3

Contribution ID: 7 Type: **not specified**

Relativistic Brueckner-Hartree-Fock Theory: an ab initio Approach for Finite Nuclei

Monday, 24 October 2022 14:00 (45 minutes)

Presenter: RING, Peter (Physikdepartment TUM)

Session Classification: Afternoon Session 1

Contribution ID: 8 Type: not specified

Electric dipole polarizability and the neutron skin thickness

Tuesday, 25 October 2022 15:45 (45 minutes)

Presenter: ROCA-MAZA, Xavier (Università degli Studi di Milano/INFN Sezione di Milano)

Session Classification: Afternoon Session 2

Contribution ID: 9 Type: **not specified**

Beyond mean field study of Giant resonances with tensor interaction

Monday, 24 October 2022 11:35 (45 minutes)

Presenter: SAGAWA, Hiroyuki (RIKEN/University of Aizu)

Session Classification: Morning Session 1

Contribution ID: 10 Type: not specified

Dipole excitations in nuclei: recent studies within the largescale shell model and beyond

Tuesday, 25 October 2022 10:00 (45 minutes)

Presenter: SIEJA, Kamila (IPHC/ CNRS Strasbourg)

Session Classification: Morning Session 2

Contribution ID: 11 Type: not specified

Accessing the single-particle structure of the PDR

Friday, 28 October 2022 09:00 (45 minutes)

Presenter: SPIEKER, Mark-Christoph (Florida State University)

Session Classification: Morning Session 5

Contribution ID: 12 Type: not specified

Electric dipole response of nuclei studied by proton scattering

Wednesday, 26 October 2022 09:00 (45 minutes)

Presenter: TAMII, Atsushi (Research Center for Nuclear Physics, Osaka University)

Session Classification: Morning session 3

Contribution ID: 13 Type: not specified

A Microscopic Approach to the Study of Pygmy and Giant Resonances

Wednesday, 26 October 2022 16:30 (45 minutes)

Presenter: TSONEVA, Nadia (ELI-NP)

Session Classification: Afternoon Session 3

Contribution ID: 14 Type: not specified

Experimental signatures of a toroidal electric dipole mode in nuclei

Tuesday, 25 October 2022 09:00 (45 minutes)

Presenter: VON NEUMANN-COSEL, Peter (Institut fur Kernphysik, TU Darmstadt)

Session Classification: Morning Session 2

Contribution ID: 15 Type: not specified

Particle-vibration coupling effect on dipole strength function at finite temperature in the covariant density functional theory framework

Friday, 28 October 2022 10:00 (45 minutes)

Presenter: WIBOWO, Herlik (Department of Physics, University of York)

Session Classification: Morning Session 5

Contribution ID: 16 Type: not specified

Pygmy or not Pygmy - an experimentalist's point of view

Monday, 24 October 2022 09:00 (45 minutes)

Presenter: ZILGES, Andreas (University of Cologne)

Session Classification: Morning Session 1

Giant and soft $m\dots$ / Report of Contributions

Registration

Contribution ID: 17 Type: not specified

Registration

Session Classification: Morning Session 1

Contribution ID: 18 Type: not specified

Welcome and Opening

Monday, 24 October 2022 08:50 (10 minutes)

Presenters: LITVINOVA, Elena (Western Michigan University (USA)); LENSKE, Horst (U. Giessen)

Session Classification: Morning Session 1

Giant and soft $m\dots$ / Report of Contributions

Discussion

Contribution ID: 19 Type: not specified

Discussion

Session Classification: Morning Session 1

Contribution ID: 20 Type: not specified

Microscopic Structure of the Low-Energy Electric Dipole Response of 120Sn

Monday, 24 October 2022 15:00 (35 minutes)

Presenter: WEINERT, Michael (University of Cologne)

Session Classification: Afternoon Session 1

Contribution ID: 21 Type: not specified

Systematics of the dipole polarizability

Monday, 24 October 2022 16:00 (35 minutes)

Presenter: BRANDHERM, Isabelle (Technische Universität Darmstadt)

Session Classification: Afternoon Session 1

Contribution ID: 22 Type: not specified

Implications of PREX-2 on the electric dipole polarizability of neutron-rich nuclei

Monday, 24 October 2022 16:45 (45 minutes)

Presenter: PIEKAREWICZ, Jorge (Florida State University)

Session Classification: Afternoon Session 1

Contribution ID: 23 Type: not specified

Resumee of the day

Contribution ID: 24 Type: not specified

in memoriam Ricardo A. Broglia

Tuesday, 25 October 2022 14:15 (30 minutes)

Presenter: VIGEZZI, Enrico

Session Classification: Afternoon Session 2

Contribution ID: 25 Type: not specified

Microscopic Calculations of Giant Pairing Vibrations in Light Nuclei

Tuesday, 25 October 2022 14:45 (45 minutes)

Presenter: BARRANCO, Francisco (University of Seville)

Session Classification: Afternoon Session 2

Contribution ID: 26 Type: not specified

Resumee of the day 2

Contribution ID: 27 Type: not specified

Evolution of the Pygmy Dipole Resonance in Sn Isotopes

Wednesday, 26 October 2022 11:30 (35 minutes)

Presenter: MARKOVA, Maria (University of Oslo)

Session Classification: Morning session 3

Contribution ID: 28 Type: not specified

The photon strength function and its impact on stellar nucleosynthesis

Wednesday, 26 October 2022 14:00 (45 minutes)

Presenter: GORIELY, Stephane (Université Libre de Bruxelles)

Session Classification: Afternoon Session 3

Contribution ID: 29 Type: not specified

Resumee of the day 3

Wednesday, 26 October 2022 17:30 (30 minutes)

Session Classification: Afternoon Session 3

Contribution ID: 30 Type: not specified

Spurious states in second RPA and multiphonon calculations

Contribution ID: 31 Type: not specified

The PREX-CREX neutron skin puzzle and energy density functional theory

Thursday, 27 October 2022 09:00 (45 minutes)

Presenter: PAPAKONSTANTINOU, Panagiota (IBS)

Session Classification: Morning Session 4

Contribution ID: 32 Type: not specified

Spurious states in second RPA and multiphonon calculations

Thursday, 27 October 2022 10:00 (45 minutes)

Presenter: KNAPP, František (Institute of Particle and Nuclear Physics, Charles University, Prague,

Czech Republic)

Session Classification: Morning Session 4

Contribution ID: 33 Type: not specified

Beyond-RPA approaches in the equation-of-motion framework

Thursday, 27 October 2022 11:30 (45 minutes)

Presenter: LITVINOVA, Elena (Western Michigan University (USA))

Session Classification: Morning Session 4

Contribution ID: 34 Type: not specified

Study of dipole resonances with ab initio interactions

Thursday, 27 October 2022 14:00 (45 minutes)

Presenter: FROSINI, Mikael (CEA - DES, IRESNE, DER, SPRC, LEPh)

Session Classification: Afternoon Session 4

Contribution ID: 35 Type: not specified

Closing remarks

Friday, 28 October 2022 11:30 (45 minutes)

Presenters: LITVINOVA, Elena (Western Michigan University (USA)); LENSKE, Horst (U. Giessen)

Session Classification: Morning Session 5

Contribution ID: 36 Type: not specified

Resumee of the day 1

Monday, 24 October 2022 17:45 (15 minutes)

Session Classification: Afternoon Session 1

Contribution ID: 37 Type: not specified

Resumee of the day 2

Tuesday, 25 October 2022 17:45 (15 minutes)

Session Classification: Afternoon Session 2