

**Shapes and Symmetries in  
Nuclei: from Experiment to  
Theory (SSNET'18 Conference)**

**Report of Contributions**

Contribution ID: 92

Type: **not specified**

## Welcome

*Monday, November 5, 2018 9:00 AM (10 minutes)*

**Presenters:** AUGÉ, Etienne (Université Paris Saclay); SCARPACI, Jean-Antoine (CSNSM)

**Session Classification:** Opening Session

Contribution ID: 93

Type: **not specified**

# Welcome

**Presenter:** SCARPACI, Jean-Antoine (CSNSM Orsay)

**Session Classification:** Opening Session

Contribution ID: 94

Type: **not specified**

## **Partial dynamical symmetries for transitional nuclei**

*Monday, November 5, 2018 9:10 AM (25 minutes)*

**Presenter:** LEVIATAN, Amiram (Racah Institute of Physics, The Hebrew University)

**Session Classification:** Session 1

Contribution ID: 95

Type: **not specified**

## **On shape coexistence and quantum phase transitions: Lead and Zirconium regions**

*Monday, November 5, 2018 9:35 AM (25 minutes)*

**Presenter:** GARCÍA-RAMOS, José Enrique (University of Huelva)

**Session Classification:** Session 1

Contribution ID: **96**

Type: **not specified**

## **Overview of Proxy-SU(3)**

*Monday, November 5, 2018 10:00 AM (25 minutes)*

**Presenter:** CASTEN, Richard (Yale University)

**Session Classification:** Session 1

Contribution ID: 97

Type: **not specified**

## **Predictions of Proxy-SU(3) for g-band to ground band B(E2)-values**

*Monday, November 5, 2018 10:25 AM (25 minutes)*

**Presenter:** CAKIRLI, R.Burcu (Istanbul University)

**Session Classification:** Session 1

Contribution ID: **98**

Type: **not specified**

## **Transfer reactions in transitional regions**

*Monday, November 5, 2018 11:15 AM (25 minutes)*

**Presenter:** VITTURI, Andrea (Dipartimento di Fisica e Astronomia Padova)

**Session Classification:** Session 2



Contribution ID: 99

Type: **not specified**

## **Prolate-oblate shape coexistence in N~60 Se isotopes**

*Monday, November 5, 2018 11:40 AM (25 minutes)*

**Presenter:** WERNER, Volker (TU Darmstadt)

**Session Classification:** Session 2

Contribution ID: **100**

Type: **not specified**

## **Shape coexistence and collective low-spin states in $^{112,114}\text{Sn}$ studied with the $(p,p'g)$ DSA coincidence technique**

*Monday, November 5, 2018 12:05 PM (25 minutes)*

**Presenter:** SPIEKER, Mark (NSCL/MSU)

**Session Classification:** Session 2

Contribution ID: **101**

Type: **not specified**

## **Shape evolution in neutron-rich Zr isotopes**

*Monday, November 5, 2018 12:30 PM (25 minutes)*

**Presenter:** SINGH, Purnima (IRFU, CEA, Université Paris-Saclay)

**Session Classification:** Session 2

Contribution ID: **102**

Type: **not specified**

## **Interplay between shape coexistence and QPT in Zirconium isotopes**

*Monday, November 5, 2018 12:55 PM (15 minutes)*

**Presenter:** GAVRIELOV, Noam (Hebrew University of Jerusalem)

**Session Classification:** Session 2

Contribution ID: **103**

Type: **not specified**

## **Recent progress of nuclear dynamics studies with TDDFT**

*Monday, November 5, 2018 2:00 PM (25 minutes)*

**Presenter:** SEKIZAWA, Kazuyuki (Niigata University)

**Session Classification:** Session 3

Contribution ID: **104**

Type: **not specified**

## **Super- and hyper-heavy nuclei in CDFT: recent results**

*Monday, November 5, 2018 2:25 PM (25 minutes)*

**Presenter:** AFANASJEV, Anatoli (Mississippi State University)

**Session Classification:** Session 3

Contribution ID: 105

Type: **not specified**

## **Quadrupole shape uctuations in nuclei and collective Hamiltonian method within Skyrme EDF**

*Monday, November 5, 2018 2:50 PM (25 minutes)*

**Presenter:** WASHIYAMA, Kouhei (University of Tsukuba)

**Session Classification:** Session 3

Contribution ID: **106**

Type: **not specified**

## **Relativistic effects in triggering the N=34 magic shell of Ca-54**

*Monday, November 5, 2018 3:15 PM (25 minutes)*

**Presenter:** LONG, Wen Hui (School of Nuclear Science and Technology, Lanzhou University)

**Session Classification:** Session 3



Contribution ID: **107**

Type: **not specified**

## **Properties of $^{229}\text{Th}$ within the state-of-the-art nuclear DFT calculations**

*Monday, November 5, 2018 4:00 PM (25 minutes)*

**Presenter:** DOBACZEWSKI, Jacek (University of York)

**Session Classification:** Session 4

Contribution ID: **108**

Type: **not specified**

## **Toroidal mode in nuclei**

*Monday, November 5, 2018 4:25 PM (25 minutes)*

**Presenter:** KVASIL, Jan (Institute for Particle and Nuclear Physics, MFF, Charles University in Prague, Czech Republic)

**Session Classification:** Session 4

Contribution ID: **109**

Type: **not specified**

## **IMME within isospin-symmetry-breaking DFT**

*Monday, November 5, 2018 4:50 PM (25 minutes)*

**Presenter:** SATULA, Wojciech (University of Warsaw, Faculty of Physics, Institute of Theoretical Physics)

**Session Classification:** Session 4

Contribution ID: 110

Type: **not specified**

## **High-K isomers in rare-earth neutron-rich nuclei by PNC-CSM method**

*Monday, November 5, 2018 5:15 PM (25 minutes)*

**Presenter:** HE, Xiao-Tao (College of Material Science and Technology, Nanjing University of Aeronautics and Astronautics)

**Session Classification:** Session 4

Contribution ID: 111

Type: **not specified**

## **Multiple chiral doublets in four-j shells particle rotor model: five possible chiral doublet bands in $^{136}\text{Nd}$**

*Monday, November 5, 2018 5:40 PM (25 minutes)*

**Presenter:** CHEN, Qibo (Peking University)

**Session Classification:** Session 4

Contribution ID: 112

Type: **not specified**

## **Applications of equation of motion phonon method in various neutron-rich Oxygen and Calcium isotopes**

*Monday, November 5, 2018 6:05 PM (25 minutes)*

**Presenter:** VESELY, Petr (Nuclear Physics Institute, Czech Academy of Sciences)

**Session Classification:** Session 4

Contribution ID: 113

Type: **not specified**

## **Nuclear structure of the transitional Xe isotopes from density inelastic neutron scattering functionals**

*Tuesday, November 6, 2018 9:00 AM (25 minutes)*

**Presenter:** YATES, Steven (University of Kentucky)

**Session Classification:** Session 5E

Contribution ID: 114

Type: **not specified**

## **Studies of semi-magic Tin nuclei using large g-ray spectrometers**

*Tuesday, November 6, 2018 9:25 AM (25 minutes)*

**Presenter:** ANDREOIU, Corina (Simon Fraser University)

**Session Classification:** Session 5E



Contribution ID: 115

Type: **not specified**

## **New insights on evolution of collectivity in the vicinity of 1680s**

*Tuesday, November 6, 2018 9:50 AM (25 minutes)*

**Presenter:** GRAHN, Tuomas (University of Jyväskylä)

**Session Classification:** Session 5E

Contribution ID: 116

Type: **not specified**

## **Coriolis Mixing in 2-qp isomer in $^{164}\text{Gd}$ and other $N=100$ isotones**

*Tuesday, November 6, 2018 10:15 AM (25 minutes)*

**Presenter:** GAUDEFROY, Laurent (CEA-France)

**Session Classification:** Session 5E

Contribution ID: 117

Type: **not specified**

## **Single-particle levels in cluster potentials**

*Tuesday, November 6, 2018 9:00 AM (25 minutes)*

**Presenter:** BIJKER, Roelof (ICN-UNAM)

**Session Classification:** Session 5T

Contribution ID: 118

Type: **not specified**

## **A beyond-mean-field description for nuclear excitation spectra: applications of the subtracted second random-phase approximation**

*Tuesday, November 6, 2018 9:25 AM (25 minutes)*

**Presenter:** GRASSO, Marcella (IPN-Orsay)

**Session Classification:** Session 5T

Contribution ID: 119

Type: **not specified**

## **Calculations of isospin triplet states in the mass A~60-80 region**

*Tuesday, November 6, 2018 9:50 AM (25 minutes)*

**Presenter:** WYSS, Ramon (KTH)

**Session Classification:** Session 5T

Contribution ID: 120

Type: **not specified**

## **New results for odd nuclei: theoretical assessment and extensions of the Hybrid Configuration Mixing model**

*Tuesday, November 6, 2018 10:15 AM (25 minutes)*

**Presenter:** COLÒ, Gianluca (Dipartimento di Fisica, Università degli Studi, and INFN, Milano)

**Session Classification:** Session 5T

Contribution ID: **121**

Type: **not specified**

## **Tri-axiality in $^{110}\text{Ru}$ from Coulomb excitation**

*Tuesday, November 6, 2018 11:05 AM (25 minutes)*

**Presenter:** DOHERTY, Daniel (University of Surrey)

**Session Classification:** Session 6E

Contribution ID: 122

Type: **not specified**

## **Spectroscopy of neutron-rich Ca and Ni isotopes with SEASTAR**

*Tuesday, November 6, 2018 11:30 AM (25 minutes)*

**Presenter:** DOORNENBAL, Pieter (RIKEN)

**Session Classification:** Session 6E



Contribution ID: 123

Type: **not specified**

## **Test of the N=50 neutron gap in the vicinity of $^{78}\text{Ni}$ and systematics of neutron-rich Ge nuclei**

*Tuesday, November 6, 2018 11:55 AM (25 minutes)*

**Presenter:** DIDIERJEAN, François (IPHC)

**Session Classification:** Session 6E

Contribution ID: 124

Type: **not specified**

## Neutron-rich nuclei with $N \geq 126$

*Tuesday, November 6, 2018 12:20 PM (25 minutes)*

**Presenter:** PODOLYAK, Zsolt (University of Surrey)

**Session Classification:** Session 6E

Contribution ID: 125

Type: **not specified**

## **Octupole vibrations in super-heavy nuclei and K-mixing for isomeric states with the QRPA formalism**

*Tuesday, November 6, 2018 11:05 AM (25 minutes)*

**Presenter:** PÉRU, Sophie (CEA/DAM-Ile-de-France, Service de Physique Nucléaire)

**Session Classification:** Session 6T

Contribution ID: 126

Type: **not specified**

## **Fine structure of b-decay strength function in spin-isospin SU(4) symmetry, and SU(4) region**

*Tuesday, November 6, 2018 11:30 AM (25 minutes)*

**Presenter:** IZOSIMOV, Igor (Joint Institute for Nuclear Research)

**Session Classification:** Session 6T

Contribution ID: 127

Type: **not specified**

## **Competition between the tetrahedral and octahedral symmetry deformations in exotic nuclei**

*Tuesday, November 6, 2018 11:55 AM (25 minutes)*

**Presenter:** DEDES, Irene (Postdoc at UMCS)

**Session Classification:** Session 6T

Contribution ID: 128

Type: **not specified**

## **Linear response formalism for nite-range interactions and nite-size instabilities**

*Tuesday, November 6, 2018 12:20 PM (25 minutes)*

**Presenter:** DAVESNE, Dany (Institut de Physique Nucléaire de Lyon)

**Session Classification:** Session 6T

Contribution ID: 129

Type: **not specified**

## **Nuclear shapes for the critical point of the U(5)-SU(3) nuclear shape phase transition**

*Tuesday, November 6, 2018 2:00 PM (25 minutes)*

**Presenter:** BUGANU, Petrica (Horia Hulubei - National Institut of Physics and Nuclear Engineer-  
ing)

**Session Classification:** Session 7T

Contribution ID: 130

Type: **not specified**

## **Symmetry adapted SU(3) no-core shell model with importance sampling**

*Tuesday, November 6, 2018 2:25 PM (25 minutes)*

**Presenter:** KNAPP, Frantisek (Charles University in Prague)

**Session Classification:** Session 7T



Contribution ID: 131

Type: **not specified**

## **Shape coexistence in neutron deficient Hg isotopes**

*Tuesday, November 6, 2018 2:50 PM (25 minutes)*

**Presenter:** PASTORE, Alessandro (University of York)

**Session Classification:** Session 7T

Contribution ID: 132

Type: **not specified**

## **Nuclear structure and dynamics from ab initio theory**

*Tuesday, November 6, 2018 3:15 PM (25 minutes)*

**Presenter:** NAVRATIL, P.

**Session Classification:** Session 7T

Contribution ID: 133

Type: **not specified**

## **t-bands in the mass A~130 region**

*Tuesday, November 6, 2018 2:00 PM (25 minutes)*

**Presenter:** WALKER, Philip (University of Surrey)

**Session Classification:** Session 7E

Contribution ID: 134

Type: **not specified**

## **Towards ultra-cold gases of Caesium, progress and perspectives**

*Tuesday, November 6, 2018 2:25 PM (25 minutes)*

**Presenter:** RENZONI, Ferruccio (University College London)

**Session Classification:** Session 7E

Contribution ID: 135

Type: **not specified**

## **Study of super-deformation in $^{42}\text{Ca}$ with Coulomb excitation**

*Tuesday, November 6, 2018 2:50 PM (25 minutes)*

**Presenter:** HADYNSKA-KLEK, Katarzyna (University of Surrey)

**Session Classification:** Session 7E

Contribution ID: 136

Type: **not specified**

## **Nuclear structure studies at IGISOL**

*Tuesday, November 6, 2018 3:15 PM (25 minutes)*

**Presenter:** KANKAINEN, Anu (University of Jyväskylä)

**Session Classification:** Session 7E

Contribution ID: 137

Type: **not specified**

## Quantum phase transitions and shape evolution in nuclei

*Tuesday, November 6, 2018 4:00 PM (25 minutes)*

**Presenter:** OTSUKA, Takaharu (Department of Physics, University of Tokyo)

**Session Classification:** Session 8T

Contribution ID: 138

Type: **not specified**

## **Coexistence phenomena in neutron-rich $A \sim 100$ nuclei within the beyond-mean-field approach**

*Tuesday, November 6, 2018 4:25 PM (25 minutes)*

**Presenter:** PETROVICI, Alexandrina (IFIN-HH)

**Session Classification:** Session 8T



Contribution ID: 139

Type: **not specified**

## **Point symmetry and nuclear octupole bands**

*Tuesday, November 6, 2018 4:50 PM (25 minutes)*

**Presenter:** MINKOV, Nikolay (Institute of Nuclear Research and Nuclear Energy, Bulgarian Academy of Sciences)

**Session Classification:** Session 8T

Contribution ID: 140

Type: **not specified**

## **Shape transition with temperature of the pear-shaped nuclei in covariant density functional theory**

*Tuesday, November 6, 2018 5:15 PM (25 minutes)*

**Presenter:** ZHANG, Wenqiang (Institute of Modern Physics, Chinese Academy of Sciences)

**Session Classification:** Session 8T

Contribution ID: 141

Type: **not specified**

## **Configuration assignments for the extensive level scheme of $^{167}\text{Lu}$**

*Tuesday, November 6, 2018 5:40 PM (25 minutes)*

**Presenter:** RAGNARSSON, Ingemar (Lund University)

**Session Classification:** Session 8T

Contribution ID: 142

Type: **not specified**

## **Nuclear structure studies based on energy density functionals**

*Tuesday, November 6, 2018 6:05 PM (25 minutes)*

**Presenter:** NIKSIC, Tamara (Department of physics, Faculty of science, University of Zagreb)

**Session Classification:** Session 8T

Contribution ID: 143

Type: **not specified**

## **Studying rotational bands in triaxial nuclei with quasiparticle-rotor model**

*Tuesday, November 6, 2018 4:00 PM (25 minutes)*

**Presenter:** LAWRIE, Elena (iThemba LABS)

**Session Classification:** Session 8E

Contribution ID: 144

Type: **not specified**

## **Triaxiality, octupole correlation, and pseudo-spin symmetry in $^{131}\text{Ba}$**

*Tuesday, November 6, 2018 4:25 PM (25 minutes)*

**Presenter:** GUO, Song (Institute of Modern Physics, Chinese Academy of Science, Lanzhou)

**Session Classification:** Session 8E

Contribution ID: 145

Type: **not specified**

## **The DESPEC project at GSI/FAIR**

*Tuesday, November 6, 2018 4:50 PM (25 minutes)*

**Presenter:** GORSKA, Magdalena (GSI Darmstadt)

**Session Classification:** Session 8E

Contribution ID: 146

Type: **not specified**

## **Study of exotic excitations in nuclei near spherical and deformed shell gaps using INGA**

*Tuesday, November 6, 2018 5:15 PM (25 minutes)*

**Presenter:** MUKHERJEE, Gopal (Variable Energy Cyclotron Centre, Kolkata)

**Session Classification:** Session 8E



Contribution ID: 147

Type: **not specified**

## **Recent experiments performed with GRETINA**

*Tuesday, November 6, 2018 5:40 PM (25 minutes)*

**Presenter:** WEISSHAAR, Dirk (NSCL/Michigan Sate University)

**Session Classification:** Session 8E

Contribution ID: 148

Type: **not specified**

## **First spectroscopy of 40Mg**

*Tuesday, November 6, 2018 6:05 PM (25 minutes)*

**Presenter:** CRAWFORD, Heather (Lawrence Berkeley National Laboratory)

**Session Classification:** Session 8E

Contribution ID: 149

Type: **not specified**

## **The SOFIA experiments on fission yields: recent results and perspectives**

*Wednesday, November 7, 2018 9:00 AM (25 minutes)*

**Presenter:** AUDOUIN, Laurent (Université Paris-Sud)

**Session Classification:** Session 9

Contribution ID: 150

Type: **not specified**

## **Fission dynamics of Fermium isotopes using Langevin equations**

*Wednesday, November 7, 2018 9:25 AM (25 minutes)*

**Presenter:** ARITOMO, Yoshihiro (Kindai University)

**Session Classification:** Session 9

Contribution ID: 151

Type: **not specified**

## **Fission in inverse kinematics: a new window to experimental observables**

*Wednesday, November 7, 2018 9:50 AM (25 minutes)*

**Presenter:** CAAMAÑO, Manuel (Universidade de Santiago de Compostela)

**Session Classification:** Session 9

Contribution ID: 152

Type: **not specified**

## **Fission studies using multi-nucleon transfer reactions**

*Wednesday, November 7, 2018 10:15 AM (15 minutes)*

**Presenter:** NISHIO, Katsuhisa (JAEA)

**Session Classification:** Session 9

Contribution ID: 153

Type: **not specified**

## **Electron-capture delayed fission in the heaviest nuclei**

*Wednesday, November 7, 2018 10:55 AM (25 minutes)*

**Presenter:** KHUYAGBAATAR, J.

**Session Classification:** Session 10

Contribution ID: 154

Type: **not specified**

## **Shapes and symmetries in fission of (super) heavy nuclei**

*Wednesday, November 7, 2018 11:20 AM (25 minutes)*

**Presenter:** KOWAL, Michal (NCBJ)

**Session Classification:** Session 10



Contribution ID: 155

Type: **not specified**

## **Fission study project in RIKEN RIBF: towards the complete measurement of fission observables**

*Wednesday, November 7, 2018 11:45 AM (25 minutes)*

**Presenter:** SASANO, Masaki (RIKEN Nishina Center)

**Session Classification:** Session 10

Contribution ID: 156

Type: **not specified**

## **Semiclassical origin of the asymmetric nuclear fission - The pre-fragment shell effect in the periodic-orbit theory**

*Wednesday, November 7, 2018 12:10 PM (25 minutes)*

**Presenter:** ARITA, Ken-ichiro (Department of Physics, Nagoya Institute of Technology)

**Session Classification:** Session 10

Contribution ID: 157

Type: **not specified**

## **Correlation between the average number of emitted neutrons and the mass yield of fragments from thermal neutron induced fission of $^{235}\text{U}$**

*Wednesday, November 7, 2018 12:35 PM (20 minutes)*

**Presenter:** MONTOYA ZAVALETA, Modesto (Universidad Nacional de Ingeniería, Lima, Perú)

**Session Classification:** Session 10

Contribution ID: 158

Type: **not specified**

## **Decay-spectroscopy and lifetime measurements of super-heavy nuclei**

*Thursday, November 8, 2018 9:00 AM (25 minutes)*

**Presenter:** LOPEZ-MARTENS, Araceli (CSNSM, IN2P3-CNRS, Université Paris Sud et Université Paris Saclay )

**Session Classification:** Session 11

Contribution ID: 159

Type: **not specified**

## **Nuclear structure of N>150 Pu-Cf nuclei and outlook with AGFA**

*Thursday, November 8, 2018 9:25 AM (25 minutes)*

**Presenter:** CHOWDHURY, Partha (University of Massachusetts Lowell)

**Session Classification:** Session 11

Contribution ID: **160**

Type: **not specified**

## **Shape coexistence studies at JYFL and ISOLDE**

*Thursday, November 8, 2018 9:50 AM (25 minutes)*

**Presenter:** PAKARINEN, Janne (University of Jyväskylä)

**Session Classification:** Session 11

Contribution ID: **161**

Type: **not specified**

## **Charge radii in region of Au-Po at ISOLDE**

*Thursday, November 8, 2018 10:15 AM (25 minutes)*

**Presenter:** CUBISS, James (University of York)

**Session Classification:** Session 11

Contribution ID: **162**

Type: **not specified**

## **Ground-state rotational bands in even-even heavy and super-heavy nuclei**

*Thursday, November 8, 2018 11:00 AM (25 minutes)*

**Presenter:** POMORSKI, Krzysztof (Maria Curie Skłodowska University)

**Session Classification:** Session 12



Contribution ID: **163**

Type: **not specified**

## **Alpha decay and fission of high-K isomers**

*Thursday, November 8, 2018 11:25 AM (25 minutes)*

**Presenter:** CLARK, Roderick (Lawrence Berkeley National Laboratory)

**Session Classification:** Session 12

Contribution ID: **164**

Type: **not specified**

# **Nuclear properties of Nobelium isotopes from laser spectroscopy**

*Thursday, November 8, 2018 11:50 AM (25 minutes)*

**Presenter:** RAEDER, Sebastian (GSI Darmstadt)

**Session Classification:** Session 12

Contribution ID: **165**

Type: **not specified**

## **Mass measurements of heavy elements at GARIS**

*Thursday, November 8, 2018 12:15 PM (25 minutes)*

**Presenter:** WADA, Michiharu (KEK)

**Session Classification:** Session 12

Contribution ID: **166**

Type: **not specified**

## **Nuclear semi-bubbles in the heaviest elements**

*Thursday, November 8, 2018 12:40 PM (25 minutes)*

**Presenter:** SCHUETRUMPF, Bastian (TU Darmstadt / GSI)

**Session Classification:** Session 12

Contribution ID: 167

Type: **not specified**

## **Extending applicability of large-scale shell-model calculations**

*Thursday, November 8, 2018 2:15 PM (25 minutes)*

**Presenter:** UTSUNO, Yutaka (Japan Atomic Energy Agency)

**Session Classification:** Session 13

Contribution ID: **168**

Type: **not specified**

## **Continuum shell model for nuclear structure and reactions**

*Thursday, November 8, 2018 2:40 PM (25 minutes)*

**Presenter:** PLOSZAJCZAK, Marek (GANIL)

**Session Classification:** Session 13

Contribution ID: **169**

Type: **not specified**

## **Nuclear matrix elements to unveil the nature of neutrinos and dark matter**

*Thursday, November 8, 2018 3:05 PM (25 minutes)*

**Presenter:** MENÉNDEZ, Javier (Technical University Darmstadt)

**Session Classification:** Session 13

Contribution ID: 170

Type: **not specified**

## **Structure of neutron-rich nuclei via nuclear force and microscopic theory**

*Thursday, November 8, 2018 3:30 PM (25 minutes)*

**Presenter:** TSUNODA, Naofumi (Center for Nuclear Study, the University of Tokyo)

**Session Classification:** Session 13



Contribution ID: 171

Type: **not specified**

## **Shell model description of dipole strength at low energy and its impact on reaction rates**

*Thursday, November 8, 2018 4:15 PM (25 minutes)*

**Presenter:** SIEJA, Kamila (Institut Pluridisciplinaire Hubert Curien)

**Session Classification:** Session 14

Contribution ID: 172

Type: **not specified**

## **Seniority and the Pandya relation**

*Thursday, November 8, 2018 4:40 PM (25 minutes)*

**Presenter:** VAN ISACKER, Piet (GANIL)

**Session Classification:** Session 14

Contribution ID: 173

Type: **not specified**

## **Nuclear shell model starting from deformed bases**

*Thursday, November 8, 2018 5:05 PM (25 minutes)*

**Presenter:** SUN, Yang (Shanghai Jiaotong University)

**Session Classification:** Session 14

Contribution ID: 174

Type: **not specified**

## **Nuclear shape isomers and shell model**

*Thursday, November 8, 2018 5:30 PM (25 minutes)*

**Presenter:** FORNAL, Bogdan (IFJ PAN)

**Session Classification:** Session 14

Contribution ID: 175

Type: **not specified**

## **Investigation of the N=60 shape transition with low-energy Coulomb excitation**

*Friday, November 9, 2018 9:00 AM (25 minutes)*

**Presenter:** ZIELINSKA, Magda (CEA Saclay)

**Session Classification:** Session 15

Contribution ID: 176

Type: **not specified**

## **Deformation and shape coexistence studied with the Coulomb excitation in neutron-deficient Po and Hg isotopes**

*Friday, November 9, 2018 9:25 AM (25 minutes)*

**Presenter:** WRZOSEK-LIPSKA, Katarzyna

**Session Classification:** Session 15

Contribution ID: 177

Type: **not specified**

## **Shapes of neutron-rich Mo-Ru isotopes from Coulex and $\beta$ -decay at CARIBU**

*Friday, November 9, 2018 9:50 AM (25 minutes)*

**Presenter:** ALLMOND, Mitch (ORNL)

**Session Classification:** Session 15

Contribution ID: 178

Type: **not specified**

## **Study of shape co-existence in mass $A \sim 40$ region**

*Friday, November 9, 2018 10:15 AM (25 minutes)*

**Presenter:** IDEGUCHI, Eiji (RCNP, Osaka University)

**Session Classification:** Session 15



Contribution ID: 179

Type: **not specified**

## **Coulomb excitation at Legnaro with SPIDER and opportunities at SPES**

*Friday, November 9, 2018 11:00 AM (25 minutes)*

**Presenter:** NANNINI, Adriana (INFN - Firenze)

**Session Classification:** Session 16

Contribution ID: **180**

Type: **not specified**

## **Coulomb excitation studies at TRIUMF-ISAC**

*Friday, November 9, 2018 11:25 AM (25 minutes)*

**Presenter:** HENDERSON, Jack (Lawrence Livermore National Laboratory)

**Session Classification:** Session 16

Contribution ID: **181**

Type: **not specified**

## **Investigation of the octupole degree of freedom with Coulomb excitation**

*Friday, November 9, 2018 11:50 AM (25 minutes)*

**Presenter:** GAFFNEY, Liam (University of the West of Scotland)

**Session Classification:** Session 16

Contribution ID: **182**

Type: **not specified**

## **New aspects of shape coexistence in nuclei**

*Friday, November 9, 2018 12:15 PM (25 minutes)*

**Presenter:** WOOD, John (School of Physics, Georgia Institute of Technology)

**Session Classification:** Session 16

Contribution ID: **183**

Type: **not specified**

## **Multiple shape coexistence in the Cadmium isotopes**

*Friday, November 9, 2018 12:40 PM (25 minutes)*

**Presenter:** GARRETT, Paul (University of Guelph)

**Session Classification:** Session 16

Contribution ID: **184**

Type: **not specified**

## **Precision laser spectroscopy for nuclear structure studies**

*Friday, November 9, 2018 2:15 PM (25 minutes)*

**Presenter:** GARCIA RUIZ, Ronald

**Session Classification:** Session 17

Contribution ID: **185**

Type: **not specified**

## **From Quark Correlations to Nuclear Drip line**

*Friday, November 9, 2018 2:40 PM (25 minutes)*

**Presenter:** MUSULMANBEKOV, Genis (JINR, LIT)

**Session Classification:** Session 17

Contribution ID: **186**

Type: **not specified**

## **Predicting neutron capture cross-sections from nuclear masses**

*Friday, November 9, 2018 3:05 PM (25 minutes)*

**Presenter:** COUTURE, Aaron (Los Alamos National Laboratory)

**Session Classification:** Session 17



Contribution ID: **187**

Type: **not specified**

## **New Accelerator Center in Sofia: Present Status and Future**

*Friday, November 9, 2018 3:50 PM (25 minutes)*

**Presenter:** TONEV, Dimitar (INRNE-BAS)

**Session Classification:** Session 18

Contribution ID: **188**

Type: **not specified**

## **A new symmetry of shapes, shells, and clusters**

*Friday, November 9, 2018 4:15 PM (25 minutes)*

**Presenter:** CSEH, Jozsef (MTA ATOMKI)

**Session Classification:** Session 18

Contribution ID: **189**

Type: **not specified**

## **To be announced**

*Friday, November 9, 2018 4:40 PM (25 minutes)*

**Session Classification:** Session 18