

# **IDATEN Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Opening Talk (ZOOM)

*Wednesday, 6 July 2022 09:00 (5 minutes)*

**Presenter:** WATANABE, Hiroshi (RIKEN(RIKEN-Wako))

Contribution ID: 55

Type: **not specified**

## **The competition between the T=0 and the T=1 coupled states in $^{96}\text{Cd}$ : lifetime measurement in the N=Z nucleus with known excited states**

*Wednesday, 6 July 2022 09:55 (12 minutes)*

**Presenter:** DAS, Biswarup (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Session Classification:** 100Sn Region - I

Contribution ID: 56

Type: **not specified**

## **Spin-gap isomer study in the N=Z-1 nucleus $^{95}\text{Cd}$**

*Wednesday, 6 July 2022 10:07 (12 minutes)*

**Session Classification:** 100Sn Region - I

Contribution ID: 57

Type: **not specified**

## **Evolution of seniority breaking in Silver isotopes near doubly magic nuclides**

*Wednesday, 6 July 2022 10:19 (12 minutes)*

**Presenter:** KIM, Yung Hee (GANIL)

**Session Classification:** 100Sn Region - I

Contribution ID: 58

Type: **not specified**

## **New Measurements of M1 and E2 transition strengths below 100Sn**

*Wednesday, 6 July 2022 10:31 (12 minutes)*

**Presenter:** PARK, Joochun (Jason) (Center for Exotic Nuclear Studies, IBS)

**Session Classification:** 100Sn Region - I

Contribution ID: 59

Type: **not specified**

## **Investigation of shell structure and shape evolution in $^{102,104}\text{Sn}$ with IDATEN**

*Wednesday, 6 July 2022 11:15 (12 minutes)*

**Presenter:** PARK, Joochun (Jason) (Center for Exotic Nuclear Studies, IBS)

**Session Classification:** 100Sn Region - II

Contribution ID: **60**

Type: **not specified**

## **Core-breaking effects in 100Sn: lifetime measurements in 101Sn**

*Wednesday, 6 July 2022 11:27 (12 minutes)*

**Presenter:** MENGONI, Daniele (University of Padova)

**Session Classification:** 100Sn Region - II

Contribution ID: **61**

Type: **not specified**

## **Lifetime measurement of the $5/2^+$ state in $^{101}\text{Sn}$ populated by alpha decay of $^{105}\text{Te}$**

*Wednesday, 6 July 2022 11:39 (12 minutes)*

**Session Classification:**  $^{100}\text{Sn}$  Region - II

Contribution ID: 62

Type: **not specified**

## **Study of spin-flip core-excitations towards $^{100}\text{Sn}$ by lifetimes of "L-forbidden" M1 transitions**

*Wednesday, 6 July 2022 11:51 (12 minutes)*

**Presenter:** BLAZHEV, Andrey (IKP, Univ. Cologne)

**Session Classification:**  $^{100}\text{Sn}$  Region - II

Contribution ID: 63

Type: **not specified**

## **Nuclear structure study below $^{132}\text{Sn}$ by lifetime measurement of excited states**

*Wednesday, 6 July 2022 14:00 (12 minutes)*

**Presenter:** WATANABE, Hiroshi (RIKEN(RIKEN-Wako))

**Session Classification:** 132 Sn region

Contribution ID: 64

Type: **not specified**

## Investigation of the structure of odd-A Cd isotopes

*Wednesday, 6 July 2022 14:12 (12 minutes)*

**Presenter:** FRAILE, Luis Mario (Universidad Complutense(UCom))

**Session Classification:** 132 Sn region

Contribution ID: 65

Type: **not specified**

## **Exploring the neutron shell evolution around $^{132}\text{Sn}$ with fast-timing lifetime measurement**

*Wednesday, 6 July 2022 14:24 (12 minutes)*

**Session Classification:**  $^{132}\text{Sn}$  region

Contribution ID: **66**

Type: **not specified**

## **Measurement of excited-state lifetimes in $^{130}\text{Cd}$**

*Wednesday, 6 July 2022 14:36 (12 minutes)*

**Presenter:** JUNGCLAUS, Andrea (CSIC)

**Session Classification:** 132 Sn region

Contribution ID: 67

Type: **not specified**

## **Lifetime measurements of the 5/2+ states in 133Sb and 135I**

*Wednesday, 6 July 2022 14:48 (12 minutes)*

**Session Classification:** 132 Sn region

Contribution ID: **68**

Type: **not specified**

## **Seniority nature in nuclei beyond $^{132}\text{Sn}$**

*Wednesday, 6 July 2022 15:00 (12 minutes)*

**Presenter:** MOON, Byul (Institute for Basic Science(IBS-Korea))

**Session Classification:**  $^{132}\text{Sn}$  region

Contribution ID: **69**

Type: **not specified**

## **Evolution of collectivity beyond $132\text{Sn}$**

*Wednesday, 6 July 2022 15:12 (12 minutes)*

**Presenter:** LOZEVA, Radomira

**Session Classification:**  $132\text{Sn}$  region

Contribution ID: 70

Type: **not specified**

## **12C+12C fusion rates from resonances at astrophysical energies**

*Wednesday, 6 July 2022 15:24 (12 minutes)*

**Session Classification:** Light mass region

Contribution ID: 71

Type: **not specified**

## Emergence of collectivity in $75,77\text{Cu}$

*Thursday, 7 July 2022 09:00 (12 minutes)*

**Presenter:** SAHIN, Eda (University of Oslo, Oslo, Norway)

**Session Classification:** 78 Ni region

Contribution ID: 72

Type: **not specified**

## **The lifetime of low-lying states in the $N = 49$ isotones, $^{81}\text{Ge}$ and $^{83}\text{Se}$**

*Thursday, 7 July 2022 09:12 (12 minutes)*

**Presenter:** AHN, Sunghoon (Center for Exotic Nuclear Studies)

**Session Classification:** 78 Ni region

Contribution ID: 73

Type: **not specified**

## **Search of isomeric states in odd-A, neutron-rich nuclei with $N = 48, 49$**

*Thursday, 7 July 2022 09:24 (12 minutes)*

**Presenter:** MUKHERJEE, Gopal (VECC, Kolkata)

**Session Classification:** 78 Ni region

Contribution ID: 77

Type: **not specified**

## **Locating the center of the N=40 Island of Inversion**

*Thursday, 7 July 2022 09:36 (12 minutes)*

**Presenter:** OLAIZOLA, Bruno (CERN)

**Session Classification:** Around N=40

Contribution ID: 78

Type: **not specified**

## Shape coexistence at N=40

*Thursday, 7 July 2022 09:48 (12 minutes)*

**Presenter:** WIMMER, Kathrin (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Session Classification:** Around N=40

Contribution ID: 79

Type: **not specified**

## **Decay spectroscopy of neutron-rich $A = 55, 56, 57$ isobars relevant to Urca cooling process in the neutron star crust**

*Thursday, 7 July 2022 10:00 (12 minutes)*

**Presenter:** WATANABE, Hiroshi (RIKEN(RIKEN-Wako))

**Session Classification:** Around  $N=40$

Contribution ID: **80**

Type: **not specified**

## **Nuclear shape of $^{108}\text{Zr}$**

*Thursday, 7 July 2022 10:45 (12 minutes)*

**Presenter:** MOON, Byul (Institute for Basic Science(IBS-Korea))

**Session Classification:** Mid-shell region-I

Contribution ID: **81**

Type: **not specified**

## **Lifetime of excited states in 108Zr**

*Thursday, 7 July 2022 10:57 (12 minutes)*

**Session Classification:** Mid-shell region-I

Contribution ID: 82

Type: **not specified**

## **Lifetime measurement for excited states in $^{100,102}\text{Sr}$ : Systematic study for shape coexistence over N=60 region**

*Thursday, 7 July 2022 11:09 (12 minutes)*

**Session Classification:** Mid-shell region-I

Contribution ID: 83

Type: **not specified**

## **Exploring Intertwined Quantum Phase Transition in Zr isotopes with Lifetime measurement**

*Thursday, 7 July 2022 11:21 (12 minutes)*

**Session Classification:** Mid-shell region-I

Contribution ID: 84

Type: **not specified**

## **Lifetime measurements of the low-lying states in 88,90,92,94Se isotopes**

*Thursday, 7 July 2022 11:33 (12 minutes)*

**Presenter:** ZENG, Qi (East China University of Technology,China)

**Session Classification:** Mid-shell region-I

Contribution ID: 85

Type: **not specified**

## **Lifetime measurements of the first 3- states in 144,146,148Ce**

*Thursday, 7 July 2022 14:00 (20 minutes)*

**Presenter:** DING, Bing

**Session Classification:** Mid-shell region-II

Contribution ID: 86

Type: **not specified**

## **Study of electric dipole moments in reflection-asymmetric Ba isotopes**

*Thursday, 7 July 2022 14:20 (12 minutes)*

**Presenter:** WATANABE, Hiroshi (RIKEN(RIKEN-Wako))

**Session Classification:** Mid-shell region-II

Contribution ID: 87

Type: **not specified**

## **Evolution of octupole characteristics in mass 150 region**

*Thursday, 7 July 2022 14:32 (12 minutes)*

**Session Classification:** Mid-shell region-II

Contribution ID: **88**

Type: **not specified**

## **Test of B(E2) strengths vs. low E(2+) energies in neutron-rich Nd isotopes**

*Thursday, 7 July 2022 14:44 (12 minutes)*

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

**Session Classification:** Mid-shell region-II

Contribution ID: 89

Type: **not specified**

**Study on the shape evolution of the deformed  
even-even Nd and Sm isotopes with  $N = 96, 98$  using  
lifetime measurement for first  $2+$  states**

*Friday, 8 July 2022 09:00 (12 minutes)*

**Session Classification:** Mid-shell region-III

Contribution ID: 90

Type: **not specified**

## Study of shape evolution in Z~60 nuclei

*Friday, 8 July 2022 09:12 (12 minutes)*

**Presenter:** IDEGUCHI, Eiji (CNS, University of Tokyo)

**Session Classification:** Mid-shell region-III

Contribution ID: 91

Type: **not specified**

## **Study of the deformation pattern in the highly-deformed rare-earth region**

*Friday, 8 July 2022 09:24 (12 minutes)*

**Presenter:** PASCU, Sorin (University of Surrey)

**Session Classification:** Mid-shell region-III

Contribution ID: 92

Type: **not specified**

**First 2+ state lifetime measurements for the  
neutron-rich Yb and Er isotopes: a quest for strong  
deformation around  $N = 110$**

*Friday, 8 July 2022 09:36 (12 minutes)*

**Session Classification:** Mid-shell region-III

Contribution ID: 93

Type: **not specified**

## **Study of the prolate-oblate shape transition in the neutron-rich heavy-mass region**

*Friday, 8 July 2022 10:20 (12 minutes)*

**Presenter:** PASCU, Sorin (University of Surrey)

**Session Classification:** Heavy mass region

Contribution ID: 94

Type: **not specified**

## Half-life of the yrast 2+ state in 190W

*Friday, 8 July 2022 10:32 (12 minutes)*

**Session Classification:** Heavy mass region

Contribution ID: 95

Type: **not specified**

## Exploring nuclear structure beyond $N=126$

*Friday, 8 July 2022 10:44 (12 minutes)*

**Presenter:** GOTTARDO, Andrea (Laboratori Nazionali di Legnaro, Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Heavy mass region

Contribution ID: 96

Type: **not specified**

## **Seniority breaking in n-rich isotopes beyond 208Pb**

*Friday, 8 July 2022 10:56 (12 minutes)*

**Presenter:** LOZEVA, Radomira (CNRS)

**Session Classification:** Heavy mass region

Contribution ID: 97

Type: **not specified**

## **Lifetime measurements of the low-lying states in $^{212}$ , $^{214}$ , $^{216}\text{Pb}$**

*Friday, 8 July 2022 11:08 (12 minutes)*

**Presenter:** LIU, zhong (Institute of Modern Physics, Chinese Academy of Sciences)

**Session Classification:** Heavy mass region

Contribution ID: 98

Type: **not specified**

## **Lifetime measurements of the low-lying states in $^{216}\text{Th}$**

*Friday, 8 July 2022 11:20 (12 minutes)*

**Presenter:** LIU, zhong (Institute of Modern Physics, Chinese Academy of Sciences)

**Session Classification:** Heavy mass region

Contribution ID: 99

Type: **not specified**

## **Lifetime measurements in the south-east frontier of the actinide island of octupole deformation and beyond**

*Friday, 8 July 2022 11:32 (12 minutes)*

**Presenter:** MORALES LOPEZ, Ana Isabel (Università degli Studi di Milano - INFN Milano)

**Session Classification:** Heavy mass region

Contribution ID: **100**

Type: **not specified**

## **BigRIPS**

*Wednesday, 6 July 2022 09:05 (20 minutes)*

**Presenter:** FUKUDA, Naoki (RIKEN Nishina Center)

Contribution ID: **101**

Type: **not specified**

## **Decay experiments at RIBF**

*Wednesday, 6 July 2022 09:25 (20 minutes)*

**Presenter:** NISHIMURA, Shunji (RIKEN)

Contribution ID: **102**

Type: **not specified**

## **IDATEN array**

*Wednesday, 6 July 2022 09:45 (10 minutes)*

**Presenter:** MOON, Byul (Institute for Basic Science(IBS-Korea))