

**Session Program**

**Apr 10 - 12, 2019**

**High Resolution Gamma-Ray Spectroscopy at  
the RIBF**

**Proposals**

# Thu, April 11

9:00 AM

## Proposals: Physics I

**Session** | **Location:** April 10: Institut für Kernphysik April 11-12: Lichtenberghaus, Darmstadt | **Convener:** Heather Crawford

9:00 - 9:15 AM **Shape coexistence in the N=Z nucleus  $^{80}\text{Zr}$**

**Speaker**

Jose Javier Valiente Dobon

9:15 - 9:30 AM

**Study of multiple shape coexistence in  $^{80}\text{Zr}$  and isospin symmetry breaking of its vicinity**

**Speaker**

Jeongsu Ha

9:30 - 9:45 AM **T=0 pairing along the N=Z line in the g<sub>9/2</sub> region**

**Speaker**

Michael Bentley

9:45 - 10:00 AM **MED and TED in the rotational A=78, 82 T=1 triplets**

**Speaker**

Silvia M. Lenzi

10:00 - 10:15 AM **Test of nuclear collectivity above 100 Sn**

**Speaker**

Jose Javier Valiente Dobon

10:15 - 10:30 AM **Spectroscopy of  $^{100}\text{In}$  with neutron knockout reactions**

**Speaker**

Joochun (Jason) Park

10:30 AM

11:00 AM

## Proposals: Physics II

**Session** | **Location:** April 10: Institut für Kernphysik April 11-12: Lichtenberghaus, Darmstadt | **Convener:** Nori AOI

11:00 - 11:15 AM **Gamma spectroscopy near  $^{78}\text{Ni}$**

**Speaker**

S Franchoo

11:15 - 11:30 AM

**Competition between core excited and single-particle proton and neutron states out of  $^{78}\text{Ni}$  studied via lifetime measurements.**

**Speaker**

Francesco Recchia

11:30 - 11:45 AM **Detailed spectroscopy of  $^{78}\text{Ni}$**

**Speaker**

Pieter Doornenbal

11:45 AM - 12:00 PM

**Lifetimes of the 4+ states in 72 and 74Ni****Speaker**

Jose Javier Valiente Dobon

12:00 - 12:15 PM

**Coulomb excitation in neutron-rich isotopes around Ni****Speaker**

Martha Liliana Cortes

12:15 - 12:30 PM

**Coulomb Excitation of  $^{70}\text{Fe}$** **Speaker**

Heather Crawford

12:30 PM

2:00 PM

**Proposals: Physics III****Session** | **Location:** April 10: Institut für Kernphysik April 11-12: Lichtenberghaus, Darmstadt | **Convener:** Thorsten Kroell

2:00 - 2:15 PM

**Neutron single-particle structure above N=50 towards 78Ni****Speaker**

Freddy Flavigny

2:15 - 2:30 PM

**E2 Coulex measurements in  $^{79,81}\text{Zn}$  to understand nuclear intruder states and shell evolution****Speaker**

Andrea Gottardo

2:30 - 2:45 PM

**Secondary knockout reactions and lifetime measurement with the plunger technique****Speaker**

Andrea Gottardo

2:45 - 3:00 PM

**Onset of collectivity beyond N=50 studied in zinc isotopes****Speaker**

Magdalena Gorska

3:00 - 3:15 PM

**Structural investigation at the boundary of gamma-ray spectroscopy: investigation of extremely neutron rich  $^{84,86,88}\text{Ge}$** **Speaker**

Christoph Fransen

3:15 - 3:30 PM

**Intermediate-energy Coulomb-excitation of neutron-rich isotopes at  $Z < 38$ ,  $N > 50$** **Speaker**

Volker Werner

3:30 - 3:45 PM

**Approaching the Fifth Island of Inversion from the north****Speaker**

Dr Ryo Taniuchi

3:45 PM

4:15 PM

## Proposals: Physics IV

**Session** | **Location:** April 10: Institut für Kernphysik April 11-12: Lichtenberghaus, Darmstadt | **Convener:** Peter Reiter

4:15 - 4:30 PM **Spectroscopic Factors in the Neutron-Rich Ca Isotopes**

**Speaker**

Heather Crawford

4:30 - 4:45 PM **Single-particle and collective structure of neutron-rich N=40 nuclei**

**Speaker**

Kathrin Wimmer

4:45 - 5:00 PM

**Spectroscopy of  $^{63}\text{V}$  and Spectroscopic Factors in the N=40 Island of Inversion**

**Speaker**

Paul Fallon

5:00 - 5:15 PM **Single-particle structure of  $^{55}\text{Ti}$  and  $^{57}\text{Ti}$**

**Speaker**

Takuma Koiwai

5:15 - 5:30 PM **Experiments with the High Resolution gamma-ray Array at RIBF**

**Speaker**

Marina Petri

5:30 - 5:45 PM **High resolution spectroscopy beyond  $^{132}\text{Sn}$**

**Speaker**

Nori AOI

5:45 - 6:00 PM

**Breaking of the isospin symmetry in the A=71 mirror nuclei: Knock-out reactions in  $^{71}\text{Kr}$ - $^{71}\text{Br}$  nuclei (and neighbours) using Miniball at Riken.**

**Speaker**

Francesco Recchia

6:00 PM

## Fri, April 12

9:00 AM

### Proposals: Physics V

**Session** | **Location:** April 10: Institut für Kernphysik April 11-12: Lichtenberghaus, Darmstadt | **Convener:** Anna Corsi

9:00 – 9:15 AM **Nature of proton and neutron motions in neutron-rich Te isotopes**

**Speaker**

Dr Byul Moon

9:15 – 9:30 AM **Pairing in weakly bound systems**

**Speaker**

Heather Crawford

9:30 – 9:45 AM **Single-particle states in the N=82 nucleus  $^{129}\text{Ag}$**

**Speaker**

Zsolt Podolyak

9:45 – 10:00 AM **High-resolution spectroscopy around N=90**

**Speaker**

Radomira Lozeva

10:00 – 10:15 AM

**$\gamma(\gamma)$ -spectroscopy and lifetime measurements in the  $^{132}\text{Sn}$  region following (p, 2p) reactions**

**Speaker**

Thorsten Kroell

10:15 – 10:30 AM

**Study of octupole deformation in neutron-rich Ba isotopes using Coulomb excitation at intermediate energies**

**Speaker**

Andrea Jungclaus

10:30 AM

11:00 AM

### Proposals: Physics VI

**Session** | **Location:** April 10: Institut für Kernphysik April 11-12: Lichtenberghaus, Darmstadt | **Convener:** Volker Werner

11:00 – 11:15 AM

**Exploring the collectivity around the N = 82 shell closure via relativistic Coulomb excitation of the Z = 50  $^{130,136}\text{Sn}$  isotopes**

**Speaker**

Peter Reiter

11:15 – 11:30 AM

**Disentangling collective and single-particle structures in neutron-rich Se isotopes**

**Speaker**

Frank Browne

11:30 - 11:45 AM

**Shape coexistence studies in neutron-rich krypton isotopes around  $N=60$** **Speaker**

Andrey Blazhev

11:45 AM - 12:00 PM

**Coulomb and quantum bubbles in heavy nuclei****Speaker**

daisuke suzuki

12:00 - 12:15 PM

**Single particle structure coupled to the second  $0+$  state in  $^{32}\text{Mg}$** **Speaker**

Nobuaki IMAI

12:15 - 12:30 PM

**Magnetic moments of short-lived excited states at projectile-fragmentation energies. Would the recoil in gas technique work?****Speaker**

Dr Joa Ljungvall

12:30 PM