

# **TASCA 23 - Program & Abstracts**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Wednesday, 26 April 2023 14:00 (10 minutes)*

**Presenter:** KHUYAGBAATAR, Jadambaa (GSI Helmholtzzentrum für Schwerionenforschung GmbH (GSI))

Contribution ID: 4

Type: **not specified**

## **Recent progress of the Laser Spectroscopy the Heaviest Actinides at GSI**

*Thursday, 27 April 2023 14:55 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** RAEDER, Sebastian (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Session Classification:** Physics: Experiment and Developments

Contribution ID: 5

Type: **not specified**

## **In-beam fission study at ASRC, JAEA**

*Tuesday, 25 April 2023 14:35 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** HIROSE , Kentarou (JAEA)

**Session Classification:** News from recoil separator laboratories (Part 1)

Contribution ID: **10**

Type: **not specified**

## **Chemistry of heaviest Group 13 Elements**

*Wednesday, 26 April 2023 17:20 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** WILSON, Jennifer (ETH Zürich / PSI)

**Session Classification:** Chemistry: Theory and Experiment

Contribution ID: 12

Type: **not specified**

## **Development of high-temperature chromatography for the heaviest elements**

*Wednesday, 26 April 2023 16:55 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** TIEBEL, Georg (PSI / ETH Zürich)

**Session Classification:** Chemistry: Theory and Experiment

Contribution ID: 15

Type: **not specified**

## **Effect of neutron evaporations in fission process with dynamical model and mass distribution of fission fragments of Superheavy nuclei**

*Wednesday, 26 April 2023 14:35 (25 minutes)*

20 min presentation + 5 min discussion time

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

**Session Classification:** Physics: Theory

Contribution ID: 16

Type: **not specified**

## **Status of the Low Energy Branch at SPIRAL2-S3**

*Thursday, 27 April 2023 15:20 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** MANEA, Vladimir (IJCLab, Orsay / GANIL, Caen)

**Session Classification:** Physics: Experiment and Developments



Contribution ID: 23

Type: **not specified**

## **Probing the fission-landscape of superheavy nuclei**

*Wednesday, 26 April 2023 14:10 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** KHUYAGBAATAR, Jadambaa (GSI Helmholtzzentrum für Schwerionenforschung GmbH (GSI))

**Session Classification:** Physics: Theory

Contribution ID: **30**

Type: **not specified**

## Welcome

*Thursday, 27 April 2023 14:00 (10 minutes)*

**Presenter:** YAKUSHEV, Alexander (GSI Helmholtzzentrum für Schwerionenforschung GmbH (GSI))

Contribution ID: 35

Type: **not specified**

## Heavy Element Research at Texas A&M University

*Tuesday, 25 April 2023 17:10 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** FOLDEN III, Charles M. (Texas A&M University)

**Session Classification:** News from recoil separator laboratories (Part 2)

Contribution ID: 37

Type: **not specified**

## **Theoretical chemistry of superheavy elements in support of experiment**

*Wednesday, 26 April 2023 16:30 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** PERSHINA, Valeria (GSI, Darmstadt)

**Session Classification:** Chemistry: Theory and Experiment

Contribution ID: 39

Type: **not specified**

## **Simulation and experiment for heavy element gas phase chromatography**

*Thursday, 27 April 2023 16:50 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** DIETZEL, Dominik (Univ. Mainz)

**Session Classification:** Chemistry and Miscellaneous

Contribution ID: 40

Type: **not specified**

## **High-precision direct mass measurement of (super)heavy nuclides with MRTOF via GARIS-II and KISS setups**

*Tuesday, 25 April 2023 14:10 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** NIWASE, Toshitaka (KEK Wako Nuclear Science Center)

**Session Classification:** News from recoil separator laboratories (Part 1)

Contribution ID: 43

Type: **not specified**

## **Status report of the JYFL-ACCLAB in-flight separators MARA and RITU**

*Tuesday, 25 April 2023 15:25 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** UUSITALO, Juha (University of Jyväskylä)

**Session Classification:** News from recoil separator laboratories (Part 1)

Contribution ID: 61

Type: **not specified**

## **Status and Perspectives of the HELIAC-Project**

*Thursday, 27 April 2023 17:10 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** MISKI-UGLU, Maksym (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Session Classification:** Chemistry and Miscellaneous



Contribution ID: 62

Type: **not specified**

## **EURASIS – towards a secure EUropean RAre Stable Isotope Supply**

*Thursday, 27 April 2023 17:30 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** ACKERMANN, Dieter (GANIL, Caen)

**Session Classification:** Chemistry and Miscellaneous

Contribution ID: **64**

Type: **not specified**

## **Preparation of the nihonium chemistry at IMP**

*Thursday, 27 April 2023 16:30 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** ZHI, Qin (IMP, Chinese Academy of Sciences, Lanzhou)

**Session Classification:** Chemistry and Miscellaneous

Contribution ID: 65

Type: **not specified**

## **Status of the gas-filled separator SHANS2**

*Tuesday, 25 April 2023 15:00 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** GAN, Zaiguo (IMP, Chinese Academy of Sciences, Lanzhou)

**Session Classification:** News from recoil separator laboratories (Part 1)

Contribution ID: **66**

Type: **not specified**

## **Recent experiments/developments with AGFA**

*Tuesday, 25 April 2023 16:45 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** SEWERYNIAK, Dariusz (ANL)

**Session Classification:** News from recoil separator laboratories (Part 2)

Contribution ID: 67

Type: **not specified**

## Status of the SIRIUS detector array

*Thursday, 27 April 2023 15:40 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** CHAKMA, Rikel (GANIL)

**Session Classification:** Physics: Experiment and Developments

Contribution ID: **68**

Type: **not specified**

## **Nuclear-spectroscopy performance of ANSWERS@TASCA**

*Tuesday, 25 April 2023 16:20 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** MOSAT, Pavol (GSI)

**Session Classification:** News from recoil separator laboratories (Part 2)

Contribution ID: 69

Type: **not specified**

## **Hindered fission and alpha decay of superheavy nuclei in high-K states**

*Wednesday, 26 April 2023 15:25 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** KOWAL, Michał (National Centre for Nuclear Research, Warsaw)

**Session Classification:** Physics: Theory

Contribution ID: 70

Type: **not specified**

## **Considerations on the validity of GEF in an extended region**

*Wednesday, 26 April 2023 15:00 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** SCHMIDT, Karl-Heinz

**Session Classification:** Physics: Theory



Contribution ID: 71

Type: **not specified**

## Dinner

*Wednesday, 26 April 2023 18:30 (2 hours)*

(at one's own charge; registration deadline past)

Contribution ID: 72

Type: **not specified**

## Updates from the BGS superheavy element program

*Tuesday, 25 April 2023 17:35 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** ORFORD, Rodney (LBNL)

**Session Classification:** News from recoil separator laboratories (Part 2)

Contribution ID: 74

Type: **not specified**

## **Concluding remarks & end of TASCA 23**

*Thursday, 27 April 2023 17:50 (10 minutes)*

Contribution ID: 75

Type: **not specified**

## **Investigation of the role of multi-neutron transfer channels on sub-barrier fusion enhancement**

*Thursday, 27 April 2023 14:35 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** KUMAR PRAJAPAT, Rinku (Indian Institute of Technology Roorkee, India)

**Session Classification:** Physics: Experiment and Developments

Contribution ID: 76

Type: **not specified**

## **Reaction parameter studies of the V-51 beam onto deformed target: V-51+Tb-159 reaction**

*Thursday, 27 April 2023 14:10 (25 minutes)*

20 min presentation + 5 min discussion time

**Presenter:** BRIONNET, Pierre (RIKEN, Nishina Center)

**Session Classification:** Physics: Experiment and Developments

Contribution ID: 77

Type: **not specified**

## Welcome

*Tuesday, 25 April 2023 14:00 (10 minutes)*

**Presenters:** GIUBELLINO, Paolo (FAIR / GSI Helmholtzzentrum für Schwerionenforschung GmbH (GSI)); DÜLLMANN, Christoph E. (Univ. Mainz / GSI / HIM )