

# **TASCA 22 - Program, Abstracts & Contributions**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Wednesday, 11 May 2022 14:00 (10 minutes)*

**Presenter:** GIUBELLINO, Paolo (FAIR / GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Contribution ID: 4

Type: **not specified**

## **Status and perspectives of chemistry studies with superheavy elements at the SHE factory in Dubna**

*Thursday, 12 May 2022 16:30 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** STEINEGGER, Patrick (PSI)

**Session Classification:** Chemistry / Interdisciplinary (Part 2)

Contribution ID: 5

Type: **not specified**

## **Heavy Element Research at Texas A&M University**

*Tuesday, 10 May 2022 17:30 (30 minutes)*

25 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: 9

Type: **not specified**

## **Synthesis of heavy nuclei in multinucleon transfer reaction Xe-136 + U-238 close to zero degrees**

*Wednesday, 11 May 2022 14:45 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** SULIGNANO, Barbara (CEA/Saclay)

**Session Classification:** Physics (Part 1)

Contribution ID: 10

Type: **not specified**

## **Recent SHE studies utilizing chemical and low-energy ion beam techniques at JAEA**

*Thursday, 12 May 2022 14:30 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** ITO, Yuta (JAEA)

**Session Classification:** Chemistry / Interdisciplinary (Part 1)

Contribution ID: 12

Type: **not specified**

## Status and Perspectives of the HELIAC-Project

*Thursday, 12 May 2022 14:50 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** BURANDT, Christoph (TU Darmstadt / GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Session Classification:** Chemistry / Interdisciplinary (Part 1)

Contribution ID: 15

Type: **not specified**

## **Multinucleon transfer reactions in the U-238 + U-238 system studied with the VAMOS + AGATA + ID-Fix**

*Wednesday, 11 May 2022 16:30 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** UTEPOV, Ablaihan (GANIL)

**Session Classification:** Physics (Part 2)



Contribution ID: 16

Type: **not specified**

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

*Tuesday, 10 May 2022 17:00 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** KIECK, Tom (GSI / HIM)

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

Contribution ID: 18

Type: **not specified**

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

*Tuesday, 10 May 2022 15:10 (30 minutes)*

25 min presentation + 5 min discussion time

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

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

Contribution ID: 21

Type: **not specified**

## Status and plans for S3

*Tuesday, 10 May 2022 16:00 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** PIOT, Julien (CNRS/GANIL)

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

Contribution ID: 23

Type: **not specified**

## **Probing the heaviest elements using Penning Trap Mass Spectrometry at SHIPTRAP**

*Wednesday, 11 May 2022 17:10 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** GUTIÉRREZ TORRES, Manuel (GSI / HIM)

**Session Classification:** Physics (Part 2)

Contribution ID: **30**

Type: **not specified**

## Welcome

*Thursday, 12 May 2022 14:00 (10 minutes)*

Contribution ID: 34

Type: **not specified**

## **Alpha, photon and electron multi-coincidence spectroscopy with ANSWERS**

*Wednesday, 11 May 2022 15:15 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** MOSAT, Pavol (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Session Classification:** Physics (Part 1)

Contribution ID: 35

Type: **not specified**

## **Stability of K-isomeric states against fission**

*Tuesday, 10 May 2022 16:30 (30 minutes)*

25 min presentation + 5 min discussion time

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

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

Contribution ID: 36

Type: **not specified**

## **Towards chemistry beyond moscovium (Mc, Z = 115)**

*Thursday, 12 May 2022 17:00 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenters:** YAKUSHEV, Alexander (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); WEI, Yeqiang (Univ. of Mainz)

**Session Classification:** Chemistry / Interdisciplinary (Part 2)



Contribution ID: 37

Type: **not specified**

## **Adsorption of superheavy element atoms and molecules on different surfaces**

*Thursday, 12 May 2022 16:00 (30 minutes)*

25 min presentation + 5 min discussion time

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

**Session Classification:** Chemistry / Interdisciplinary (Part 2)

Contribution ID: 39

Type: **not specified**

## **Upgrade of the detection setup of the gas-filled recoil separator GARIS-III**

*Thursday, 12 May 2022 14:10 (20 minutes)*

15 min presentation + 5 min discussion time

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

**Session Classification:** Chemistry / Interdisciplinary (Part 1)

Contribution ID: 40

Type: **not specified**

## **Quasielastic backscattering measurement for V-51 + Cm-248 reaction toward element-119 synthesis at RIKEN**

*Tuesday, 10 May 2022 14:10 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** TANAKA, Masaomi (RIKEN, Nishina Center)

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

Contribution ID: 41

Type: **not specified**

## **Probing proton emitters using the MARA sperator**

*Wednesday, 11 May 2022 16:50 (20 minutes)*

15 min presentation + 5 min discussion time

**Presenter:** AURANEN, Kalle (University of Jyväskylä)

**Session Classification:** Physics (Part 2)

Contribution ID: 42

Type: **not specified**

## **In-beam gamma-ray spectroscopy of neutron-rich actinides at the JAEA Tandem accelerator**

*Wednesday, 11 May 2022 14:15 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** ORLANDI, Riccardo (ASRC, Japan Atomic Energy Agency)

**Session Classification:** Physics (Part 1)

Contribution ID: 43

Type: **not specified**

## **Measurement of evaporation residues produced in the multinucleon transfer reaction using the JAEA Recoil Mass Separator**

*Tuesday, 10 May 2022 14:40 (30 minutes)*

25 min presentation + 5 min discussion time

**Presenter:** SUZAKI, Fumi (JAEA)

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

Contribution ID: 58

Type: **not specified**

## **Influence of Multi-Neutron Transfer Channels on sub-barrier fusion enhancement**

*Wednesday, 11 May 2022 15:45 (15 minutes)*

10 min presentation + 5 min discussion time  
Supervisor: S. Mandal

**Presenter:** RANI, Anjali (University of Delhi)

**Session Classification:** Physics (Part 1)

Contribution ID: 59

Type: **not specified**

## **Spectroscopy of neutron deficient actinium isotopes**

*Wednesday, 11 May 2022 16:00 (15 minutes)*

10 min presentation + 5 min discussion time

Supervisors: J. Uusitalo, K.Auranen

**Presenter:** LOUKO, Jussi (University of Jyväskylä)

**Session Classification:** Physics (Part 1)



Contribution ID: **60**

Type: **not specified**

## **Probing the fusion-fission dynamics of Bi-203 through mass distribution measurements**

*Wednesday, 11 May 2022 17:40 (15 minutes)*

10 min presentation + 5 min discussion time

Supervisor: S. Mandal

**Presenter:** CHAKRABORTY, Kajol (Department of Physics and Astrophysics, University of Delhi)

**Session Classification:** Physics (Part 2)

Contribution ID: **61**

Type: **not specified**

## **Ion optical simulation for the NEXT solenoid separator**

*Thursday, 12 May 2022 15:10 (15 minutes)*

10 min presentation + 5 min discussion time

Supervisor: J. Even

**Presenter:** SOYLU, Arif (University of Groningen)

**Session Classification:** Chemistry / Interdisciplinary (Part 1)

Contribution ID: 62

Type: **not specified**

## **Metal adsorption on thiolate-functionalized gold-coated silicon detectors for the future study of meitnerium chemistry**

*Thursday, 12 May 2022 17:20 (15 minutes)*

10 min presentation + 5 min discussion time

Supervisor: C.M. Folden III

**Presenter:** ZAKUSILOVA, Vira (Univ. de Strasbourg / Texas A&M Univ.)

**Session Classification:** Chemistry / Interdisciplinary (Part 2)

Contribution ID: 63

Type: **not specified**

## **Progress report on Laser Resonance Chromatography (LRC)**

*Thursday, 12 May 2022 15:25 (15 minutes)*

10 min presentation + 5 min discussion time

Supervisor: M. Laatiaoui

**Presenter:** ROMERO ROMERO, Elisa (JGU / HIM)

**Session Classification:** Chemistry / Interdisciplinary (Part 1)