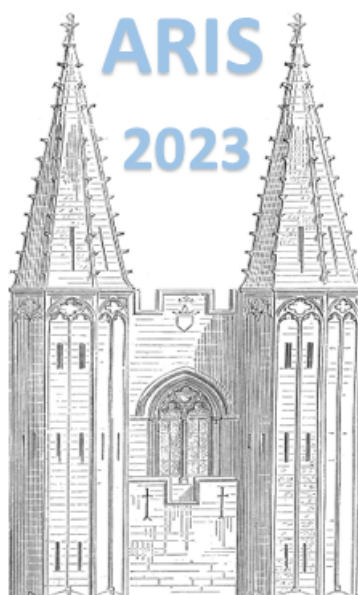


Session Program

4-9 juin 2023



Advances in Radioactive Isotope Science *parallel session*

Palais des Papes - Avignon - France, Conclave

mar. 6 juin

11:00

parallel session

Session | Site: conclave | Convener: Thomas Cocolios

11:00 – 11:15 **Structure of ^{13}Be using TexAT active target.**

Orateur

Grigory Rogachev

Site

conclave

11:15 – 11:30 **Initial RI Beam Commissioning of the RAON ISOL Facility**

Orateur

Dr Jinho Lee

Site

11:30 – 11:45 **Shape coexistence studies of Pb-186 employing the SAGE spectrometer**

Orateur

Dr Joonas Ojala

Site

11:45 – 12:00 **Statistical and shell effect in beta-delayed neutron emission**

Orateur

Prof. Robert Grzywacz

Site

12:00 – 12:15 **Testing ab-initio calculations in light nuclei via high-precision spectroscopy**

Orateur

Irene Zanon

Site

12:15 – 12:30

Study of the N = 32 and N = 34 shell gap for Ca and Ar isotopes with quasi-free scattering reactions

Orateur

Dr Hongna Liu

Site

12:30 – 12:45

The N=126 Factory: A new multi-nucleon transfer reaction facility at Argonne National Laboratory

Orateur

Adrian Valverde

Site

12:45

11:00

parallel session

Session | Site: tresorier | Convener: Kyle Leach

11:00 – 11:15 Precision half-life measurements of mirror transitions at Notre Dame**Orateur**

Maxime Brodeur

Site**11:15 – 11:30****Electromagnetic Dipole Response of Nuclei: Exploring Nuclear Structures and Constraining Nucleosynthesis Processes****Orateur**

Mathis Wiedeking

Site**11:30 – 11:45****Search for ^{22}Na in novae supported by a novel method for measuring femtosecond nuclear lifetimes****Orateur**

Dr François de Oliveira Santos

Site**11:45 – 12:00****First measurement of a p-process reaction using a radioactive ion beam****Orateur**

Matthew Williams

Site**12:00 – 12:15****Determination of fission barrier height of ^{210}Fr via neutron measurement****Orateur**

Martin Veselský

Site**12:15 – 12:30****First study of proton capture reaction on stored radioactive ^{118}Te beam****Orateur**

Sophia Florence Dellmann

Site**12:30 – 12:45****Simultaneous pH sensing and gamma-ray imaging via angular correlation measurement using cascade nuclides****Orateur**

Dr Mizuki Uenomachi

Site

12:45

14:30

parallel sessionSession | Site: Tresorier | Convener: Jens
Lassen**14:30 – 14:45****First results from ATLANTIS - A new collinear laser spectroscopy setup at Argonne National Laboratory**

Orateur
Bernhard Maaß

Site

14:45 – 15:00

Electromagnetic moments of the antimony ($Z=51$) isotopic chain $^{112-133}\text{Sb}$ in comparison to shell-model ab initio calculations

Orateur
Simon Lechner

Site

15:00 – 15:15

Storage ring facilities for radioactive ions -New detectors and upgrade plans

Orateur
Takayuki Yamaguchi

Site

15:15 – 15:30

Indirect measurements of neutron-induced reaction cross-sections at heavy-ion storage rings

Orateur
Michele Sguazzin

Site

15:30 – 15:45

Probing the $N=152$ neutron shell gap by laser spectroscopy of fermium isotopes

Orateur
Mlle Jessica Warbinek

Site

15:45 – 16:00

Island of inversion at the $N=Z$ line

Orateur
Dr Frederic NOWACKI

Site

16:00 – 16:15

Towards in-gas-jet studies of isomeric $^{229}\text{Th}^+$

Orateur
Arno Claessens

Site

16:15

14:30

parallel session

Session | Site: conclave | Convener: Prof. Wilton Catford

14:30 – 14:45

Isospin symmetry in the $A=78$ triplet - gamma-ray spectroscopy of ^{78}Y and ^{78}Zr

Orateur
Dr Panu Ruotsalainen

Site

14:45 – 15:00

Isospin-symmetry breaking in the $B(E2)$ transitions of $T=1$ isotriplets

Orateur
Betania Camille Tumelero Backes

Site

15:00 – 15:15

Probing the rapid onset of deformation below ^{68}Ni through the beta decay of ^{67}Mn **Orateur**

Victoria Vedia

Site

15:15 – 15:30

Towards N=126 shell closure using multi-nucleon transfer reaction between ^{136}Xe and ^{198}Pt **Orateur**

Yung Hee KIM

Site

15:30 – 15:45

Towards the r-process path at N=126**Orateur**

Zsolt Podolyak

Site

15:45 – 16:00

Core-breaking effects around ^{100}Sn : lifetime measurements in the most neutron-deficient Sn isotopes.**Orateur**

Marta Polettini

Site

16:00 – 16:15

Cross-shell interactions at the N=28 shell closure via $^{47}\text{K}(\text{d},\text{p})$ and $^{47}\text{K}(\text{d},\text{t})$ with MUGAST+AGATA+VAMOS.**Orateur**

Charlie Paxman

Site

16:15

16:45

parallel session

Session | Site: conclave | Convener: Julia Even

16:45 – 17:00

Gamow-Teller Giant Resonance in ^{11}Li neutron drip line nucleus**Orateur**

Dr László Stuhl

Site

17:00 – 17:15

 β^- -decay of ^{36}Mg and ^{36}Al : Identification of a long-lived isomer in ^{36}Al **Orateur**

Rebeka Sultana Lubna

Site

17:15 – 17:30

Measurement of reaction cross section for ^{17}F with a solid hydrogen target**Orateur**

Tetsuaki Moriguchi

Site

17:30 – 17:45

First characterization of Short-Range Correlations in an exotic nucleus at R3B**Orateur**

Andrea Lagni

Site

17:45 – 18:00

Gamma-ray spectroscopy of the neutron-rich $\mathrm{{}^{55,57,59}\mathrm{Sc}}$ isotopes**Orateur**

Radostina Zidarova

Site

18:00

16:45

parallel session

Session | Site: Tresorier | Convener: Robert Bark

16:45 – 17:00

Microscopic study of alpha, two-alpha and cluster decays**Orateur**

Elias Khan

Site

17:00 – 17:15

Investigation of negative-parity band in ${}^{130}\mathrm{Cs}$ **Orateur**

Dr Chandrani Majumder

Site

17:15 – 17:30

Determination of electromagnetic moments within nuclear DFT**Orateur**

Jacek Dobaczewski

Site

17:30 – 17:45

Harvesting Hf-172 from heavy-ion beam irradiated tungsten beam-blocker for generating Lu-172**Orateur**

Samridhi Satija

Site

17:45 – 18:00

Mass Measurement of the ${}^{123}\mathrm{Pd}$ with the Rare-RI Ring in RIKEN**Orateur**

HONGFU LI

Site

18:00

jeu. 8 juin

11:00

parallel session

Session | Site: Tresorier | Convener: Klaus Wendt

11:00 – 11:15 Measurement of the bound-state beta decay of highly charged ions $^{205}\text{Tl}^{81+}$

Orateur

Rui-Jiu Chen

Site

11:15 – 11:30 Nuclear structure of Pd isotopes via optical spectroscopy

Orateur

Sarina Geldhof

Site

11:30 – 11:45 Laser Spectroscopy of the Hyperfine Splitting in $^{208}\text{Bi}^{82+}$

Orateur

Max Horst

Site

11:45 – 12:00

High-precision collinear laser spectroscopy - An all-optical nuclear charge radius of ^{12}C

Orateur

Phillip Imgram

Site

12:00 – 12:15

Production of medical grade Ac-225 with resonant laser ionization and mass separation at CERN MEDICIS

Orateur

Jake Johnson

Site

12:15 – 12:30

Measurements of β -delayed one and two neutron emission probabilities south-east of ^{132}Sn within the BRIKEN project at RIKEN

Orateur

Dr Phong Vi

Site

12:30 – 12:45

Nuclear and molecular physics studies with laser spectroscopy of radioactive molecules

Orateur

Michail Athanasakis-Kaklamanakis

Site

12:45

11:00

parallel session

Session | Site: Conclave | Convener: Daniel Bazin

11:00 – 11:15 First results with the Advanced Rare Isotope Separator (ARIS) at FRIB

Orateur

Oleg Tarasov

Site

11:15 – 11:30 Evolution of the neutron $1d$ spin-orbit splitting in ^{35}S and ^{39}Ca

Orateur

Sandile Jongile

Site

11:30 – 11:45

Evolution of single-particle structure along the Mg isotopic chain: the $d(30\text{Mg},p)31\text{Mg}$ reaction measured with the ISOLDE Solenoidal Spectrometer

Orateur

Dr Patrick MacGregor

Site

11:45 – 12:00 Medical Radioisotope Production Using Inverse Kinematics

Orateur

Dr Marcia Dias Rodrigues

Site

12:00 – 12:15 Light-exotic nuclei studied with the (t,p) reaction in inverse kinematics using HELIOS

Orateur

Alan Wuosmaa

Site

12:15 – 12:30 Spectroscopy of heavy neutron-rich $N > 126$ nuclei at RIKEN

Orateur

Anabel Morales López

Site

12:30 – 12:45 Precision Lifetime Measurements of Excited States in ^{38}Si and ^{36}Si

Orateur

Mara Grindler

Site

12:45

14:30

parallel session

Session | Site: conclave | Convener: Michael Block

14:30 – 14:45 Developments in muonic x-ray spectroscopy

Orateur

Michael Heines

Site

14:45 – 15:00 Study of alpha particle production in the $6\text{He}+9\text{Be}$ collision

Orateur
Kelly C. C. Pires

Site

15:00 – 15:15 Recent Nuclear Structure Studies at N=50 Through Masses of Isomeric States

Orateur
Lukas Nies

Site

15:15 – 15:30 Combined Mass and Half-life Measurements with TITAN's MR-TOF-MS

Orateur
M. Coulter Walls

Site
conclave

15:30 – 15:45

Recent highlights from high-precision atomic mass measurements using MRTOF-MS at RIKEN/RIBF

Orateur
Dr Marco Rosenbusch on behalf of the RIBF-MRTOF collaboration and the KISS collaboration

Site
conclave

15:45 – 16:00

High-precision mass measurements of ground and isomeric states of (super)heavy nuclides with SHIPTRAP

Orateur
Manuel J. Gutiérrez

Site

16:00 – 16:15 The new Atomic Mass Evaluation (AME2020)

Orateur
Wenjia Huang

Site

parallel session

Session | **Site:** Tresorier | **Convener:** Filip Kondev

14:30 – 14:45

Possible Existence of Extremely Neutron-Rich Superheavy Nuclei in Neutron Star Crusts Under a Superstrong Magnetic Field

Orateur
Dr Kazuyuki Sekizawa

Site

14:45 – 15:00

Ab initio calculation of the $^3\text{He}(\alpha, \gamma)^7\text{Be}$ astrophysical S factor

Orateur
Mack Atkinson

Site

15:00 – 15:15

Is there a dark decay in ^6He ?

Orateur
Marius Le Joubioux

Site

15:15 – 15:30 A systematic analysis of nucleon emission in deuteron-induced reactions

Orateur
Brett Carlson

Site

15:30 – 15:45 Spectroscopic Factor Investigation in the N=40 Island of Inversion

Orateur
Carlotta Porzio

Site

15:45 – 16:00 Measurement of the Fierz interference term in ^{20}F decay

Orateur
O. Naviliat-Cuncic (1,2,5,6)

Site

16:00 – 16:15 Decay spectroscopy around neutron-rich ^{33}Mg to probe an ‘island of inversion’

Orateur
Tammy Zidar

Site

parallel session

Session | **Site:** Tresorier | **Convener:** Wilfried Nörtershäuser

16:45 – 17:00 The ISOLDE RILIS at 30

Orateur
Katerina Chrysalidis

Site

17:00 – 17:15 The PUMA experiment at CERN

Orateur
Frank Wienholtz

Site

17:15 – 17:30 First beta-delayed spectroscopy of neutron-rich Cl isotopes with FDSi

Orateur
Ian Cox

Site

17:30 – 17:45 First beta-delayed neutron spectroscopy of doubly-magic ^{24}O .

Orateur
Shree Neupane

Site

17:45 – 18:00 Study of the $^{10}\text{Be}(t,p)^{12}\text{Be}$ reaction with the SOLARIS spectrometer

18:00

16:45

Orateur

Alicia Muñoz Ramos

Site

parallel session

Session | Site: conclave | Convener: Rafael Ferrer

16:45 – 17:00

KDK: first measurement of the rare electron-capture decay of ^{40}K to the ground state of ^{40}Ar

Orateur

Philippe Di Stefano

Site

17:00 – 17:15

Onset of deformation in the neutron-rich krypton isotopes via transfer reactions with the ISOLDE Solenoidal Spectrometer

Orateur

Annie Dolan

Site

17:15 – 17:30

Radiation-detected NMR for chemistry and life-science studies using unstable nuclei

Orateur

Magdalena Kowalska

Site

17:30 – 17:45

Structure of $A=22$ analogue states revealed through mirrored-transfer

Orateur

Jack Henderson

Site

17:45 – 18:00

Constraining the electron-capture rates of neutron-rich nuclei with the $(d, \alpha)^2\text{He}$ reaction in inverse kinematics.

Orateur

M. Zarif Rahman

Site

18:00