

Advances in Radioactive Isotope Science



Program Booklet

After a long hiatus, we are delighted to host a fully no-zoom/in-person edition of ARIS 2023, the premier conference concerning radioactive isotope science and applications. A warm welcome to the beautiful, historic city of Avignon and its magnificent *Palais des Papes*, which will be your home base for an exciting week of up-to-date science, lively discussions and great dining. Thanks to all of you for your participation and attendance. We are also particularly grateful to our sponsors, whose donations have helped make ARIS2023 a reality at last:



We deeply appreciate the help of our International Advisory Committee:

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From the ARIS 2023 Local Organizing Committee:

Marlène Assié (IJCLab-Orsay), Aurelie Bonhomme (IPHC-Strasbourg), Ferid Haddad (Arronax/U. Nantes), Beatriz Jurado (LP2I-Bordeaux), Ulli Köster (ILL-Grenoble), Wolfram Korten (IRFU-Saclay), David Lunney (IJCLab-Orsay), Nigel Orr (LPC-Caen), Kamila Sieja (IPHC-Strasbourg) and Jean-Charles Thomas (GANIL-Caen).



The story of “ARIS the Fourth” – an imaginary pope – born from a TED (Technology Education Design) lesson commissioned for the event TEDxCERN (2015). The five-minute animation “Where does gold come from?” links the alchemists with stellar nucleosynthesis and attempts to explain the origin of heavy elements. The lesson was conceived and written by David Lunney, while the animation was made by Andrew Foerster (see rewfoe.com) – both coincidentally from Toronto, Canada. ARIS IV is derived from the alchemist character in the TED lesson (seen in the image at right @rewfoe.com, from the animation): <https://ed.ted.com/lessons/where-does-gold-come-from-david-lunney>



ARIS 2023 Program

Monday		Tuesday		Wednesday		Thursday		Friday	
	conclave		conclave		conclave		conclave		conclave
8:45 welcome		8:45 Vazquez Rodriguez		8:45 Raeder		8:45 Lennarz		8:45 Korgul	
9:10 Otsuka		9:10 Reiter		9:10 Kondo		9:10 Uusitalo		9:10 Masenda	
9:35 Crawford		9:35 M. Vandebrouck		9:35 Gaffney		9:35 Sun		9:35 Garcia Ruiz	
10:00 Reifarth (EPJA sponsored)		10:00 Kraemer		10:00 Michimasa		10:00 Rykaczewski		10:00 Gallant	
10:25 coffee		10:25 coffee		10:25 coffee		10:25 coffee		10:25 coffee	
11:00 Rousset-Chomaz		11:00 Rogachev 627		11:00 Holt		11:00 Tarasov 540		11:00 Duchemin	
11:25 Panin		11:15 J. Lee 530		11:25 Suzuki		11:15 Jongile 446		11:25 Giacalone	
11:50 Abe		11:30 Ojala 350		11:50 Brugnara		11:30 Macgregor 309		Geldof 391 (NUPECC sponsored)	
12:15 Kay		11:45 Grzywacz 441		12:15 Hornung		11:45 Dias Rodrigues 537		11:50 Tsukada	
12:45 lunch		12:00 Zanon 374		12:45 lunch		12:00 Wuosma 437		12:10 Greyy	
		12:15 H. Liu 560		Dellmann 458		12:15 Morales Lopez 428		12:30 prizes/next ARIS	
		12:30 Valverde 503		Uenomachi 553		12:30 Grindler 526		Athanassakis 360	
		12:45 lunch				12:45 lunch		12:45 end	
14:30 Das		14:30 Ruotsalainen 544		Maaß 525		14:30 Michelagnoli		14:30 Heines 426	
14:45 Sharp		14:45 Backes 495		Lechner 307		14:55 Moon		14:45 Pires 343	
15:20 Giovinazzo		15:00 Vedia 609		Yamaguchi 372		15:20 Seweryniak		15:00 Nies 480	
15:45 Wallner		15:15 Y.-H. Kim 358		Squazzini 435		15:45 de Groot		15:15 Walls 600	
16:15 coffee		15:30 Podolyak 507		Wartibinek 584		16:15 coffee		15:30 Rosenbusch 528	
		15:45 Pioletti 517		Nowacki 578				15:45 Gutierrez 558	
16:45 Ryssens		16:00 Paxman 331		Claessens 430		16:45 Ong		16:00 Zidar 598	
17:10 Wahl		16:15 coffee				17:10 Rocchini		16:15 coffee	
17:35 end						17:35 Wang			
18:00 Baum public lecture		16:45 Stuhl 561		Khan 353		18:00 posters/pastis		16:45 Di Stephano 512	
19:30 end		17:00 Lubna 300		Majumder 531		20:00 end		17:00 Dolan 466	
		17:15 Moriguchi 407		Dobaczewski 439				17:15 Kowalska 587	
		17:30 Lagni 341		Satija 419				17:30 Henderson 497	
		17:45 Zidarova 514		H. Li 336				17:45 Rahman 381	
		18:00 posters/pastis						18:00 end	
		20:00 end							
								18:45 Aperitif (Pont d'Avignon)	
								20:00 Banquet (Espace J. Laurent)	
								23:59 end?	

Monday, 5 June 2023

opening - Conclave (5 Jun 2023, 08:45 - 09:10)

time [id]	title	presenter
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08:45	[293] Welcome to ARIS in Avignon	LUNNEY, David FARGET, Fanny
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plenary 01 - conclave (5 Jun 2023, 09:10 - 10:25)

-Convener: Ani Aprahamian

time [id]	title	presenter
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09:10	[651] Prevailing triaxial shapes in exotic and heavy nuclei	OTSUKA, Takaharu
09:35	[644] FRIB and the Neutron-Rich Mg Isotopes	CRAWFORD, Heather
10:00	[355] Nuclear astrophysics at storage rings <i>(presentation sponsored by EPJ)</i>	REIFARTH, Rene

coffee break - paneterie / salle des gardes (10:25 - 11:00)

plenary 02 - conclave (5 Jun 2023, 11:00 - 12:45)

-Convener: Isao Tanihata

time [id]	title	presenter
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11:00	[397] Highlights of GANIL-SPIRAL2 facilities	ROUSSEL-CHOMAZ, Patricia
11:25	[652] Observation of a correlated free four-neutron system	PANIN, Valerii
11:50	[385] Alpha-clustering in atomic nuclei from first principles	ABE, Takashi
12:15	[299] Studies of Weakly-Bound, Neutron-Rich Nuclei using HELIOS and SOLARIS	KAY, Ben

lunch break - Espace Jeanne Laurent (12:45 - 14:30)

plenary 03 - conclave (5 Jun 2023, 14:30 - 16:15)**-Convener: Byungsik Hong**

time [id]	title	presenter
14:30	[620] The Decay Spectroscopy Setup at the GSI-FAIR facility and the physics results from FAIR-0	DAS, Biswarup
14:55	[631] Evolution of single-particle properties probed with the ISOLDE Solenoidal Spectrometer	SHARP, David
15:20	[654] Proton radioactivity studies with ACTAR TPC	GIOVINAZZO, Jérôme
15:45	[650] r process and supernova signatures in deep-sea archives	WALLNER, Anton

coffee break - Paneterie and Salle des Gardes (16:15 - 16:45)**plenary 04 - conclave (5 Jun 2023, 16:45 - 17:40)****-Convener: alfredo poves**

time [id]	title	presenter
16:45	[347] Microscopic models of nuclear structure at scale	RYSSENS, Wouter
17:10	[641] Emission channeling investigations of impurities with interesting quantum properties in single crystals	WAHL, Ulrich
17:35	end	

*Possibility to hang posters in the Paneterie (materials provided)***public lecture - conclave (5 Jun 2023, 18:00 - 19:30)****-Convener: Ulli Köster**

time [id]	title	presenter
18:00	[347] Treatment of metastatic cancer by Radiomolecular Precision Oncology – an ongoing revolution (simultaneous translation into French)	BAUM, Prof. Richard P.
19:30	end	

Tuesday, 6 June 2023

plenary 05 - Conclave (6 Jun 2023, 08:45 - 10:25)

-Convener: Navin Alahari

time [id]	title	presenter
08:45	[643] Unravelling the mysteries of the atomic nucleus via high resolution laser spectroscopy at COLLAPS	VAZQUEZ RODRIGUEZ, Liss
09:10	[295] Nuclear Structure investigations of most exotic nuclei via mass measurements at TITAN	REITER, Moritz Pascal
09:35	[415] Study of the Pygmy Dipole Resonance using neutron inelastic scattering at GANIL-SPIRAL2/NFS	VANDEBROUCK, Marine
10:00	[312] Observation of the radiative decay of the low energy thorium-229 isomer: En route towards a nuclear clock	KRAEMER, Sandro

coffee break (10:25 - 11:00)

Tuesday, 6 June 2023

parallel session - tresorier (6 Jun 2023, 11:00 - 12:45)

-Convener: Kyle Leach

time [id]	title	presenter
11:00	[521] Precision half-life measurements of mirror transitions at Notre Dame	BRODEUR, Maxime
11:15	[298] Electromagnetic Dipole Response of Nuclei: Exploring Nuclear Structures and Constraining Nucleosynthesis Processes	WIEDEKING, Mathis
11:30	[387] Search for ^{22}Na in novae supported by a novel method for measuring femtosecond nuclear lifetimes	DE OLIVEIRA SANTOS, François
11:45	[538] First measurement of a p-process reaction using a radioactive ion beam	WILLIAMS, Matthew
12:00	[392] Determination of fission barrier height of ^{210}Fr via neutron measurement	VESELSKÝ, Martin
12:15	[458] First study of proton capture reaction on stored radioactive ^{118}Te beam	DELLMANN, Sophia Florence
12:30	[553] Simultaneous pH sensing and gamma-ray imaging via angular correlation measurement using cascade nuclides	UENOMACHI, Mizuki

parallel session - conclave (6 Jun 2023, 11:00 - 12:45)

-Convener: Thomas Cocolios

time [id]	title	presenter
11:00	[627] Structure of ^{13}Be using TexAT active target.	ROGACHEV, Grigory
11:15	[530] Initial RI Beam Commissioning of the RAON ISOL Facility	LEE, Jinho
11:30	[350] Shape coexistence studies of ^{186}Pb employing the SAGE spectrometer	OJALA, Joonas
11:45	[441] Statistical and shell effect in beta-delayed neutron emission	GRZYWACZ, Robert
12:00	[374] Testing ab-initio calculations in light nuclei via high-precision spectroscopy	ZANON, Irene
12:15	[560] Study of the $N = 32$ and $N = 34$ shell gap for Ca and Ar isotopes with quasi-free scattering	LIU, Hongna
12:30	[503] The $N=126$ Factory: A new multi-nucleon transfer reaction facility at Argonne National Laboratory	VALVERDE, Adrian

lunch break - Espace Jeanne Laurent (12:45 - 14:30)

parallel session - Tresorier (6 Jun 2023, 14:30 - 16:15)**-Convener: Jens Lassen**

time	[id] title	presenter
14:30	[525] First results from ATLANTIS - A new collinear laser spectroscopy setup at Argonne National Laboratory	MAASS, Bernhard
14:45	[307] Electromagnetic moments of the antimony ($Z=51$) isotopic chain	LECHNER, Simon
15:00	[372] Storage ring facilities for radioactive ions -New detectors and upgrade plans	YAMAGUCHI, Takayuki
15:15	[435] Indirect measurements of neutron-induced reaction cross-sections at heavy-ion storage rings	SGUAZZIN, Michele
15:30	[584] Probing the $N=152$ neutron shell gap by laser spectroscopy of fermium isotopes	WARBINEK, Jessica
15:45	[578] Island of inversion at the $N=Z$ line	NOWACKI, Frederic
16:00	[430] Towards in-gas-jet studies of isomeric $^{229}\text{Th}^+$	CLAESSENS, Arno

parallel session - conclave (6 Jun 2023, 14:30 - 16:15)**-Convener: Wilton Catford**

time	[id] title	presenter
14:30	[544] Isospin symmetry in the $A=78$ triplet - gamma-ray spectroscopy of ^{78}Y and ^{78}Zr	RUOTSALAINEN, Panu
14:45	[495] Isospin-symmetry breaking in the $B(E2)$ transitions of $T=1$ isotriplets	TUMELERO BACKES, Betania
15:00	[609] Probing the rapid onset of deformation below ^{68}Ni through the beta decay of ^{67}Mn	VEDIA, Victoria
15:15	[358] Towards $N=126$ shell closure using multi-nucleon transfer reaction between ^{136}Xe and ^{198}Pt	KIM, Yung Hee
15:30	[507] Towards the r-process path at $N=126$	PODOLYAK, Zsolt
15:45	[517] Core-breaking effects around ^{100}Sn : lifetime measurements in the most neutron-deficient Sn	POLETTINI, Marta
16:00	[331] Cross-shell interactions at the $N=28$ shell closure via $^{47}\text{K}(d,p)$ and $^{47}\text{K}(d,t)$ with MUGAST+AGATA+VAMOS.	PAXMAN, Charlie

coffee break - paneterie / salle des gardes (16:15 - 16:45)

parallel session - Tresorier (6 Jun 2023, 16:45 - 18:00)**-Convener: Robert Bark**

time	[id] title	presenter
16:45	[353] Microscopic study of alpha, two-alpha and cluster decays	KHAN, Elias
17:00	[531] Investigation of negative-parity band in ^{130}Cs	MAJUMDER, Chandrani
17:15	[439] Determination of electromagnetic moments within nuclear DFT	DOBACZEWSKI, Jacek
17:30	[419] Harvesting Hf-172 from heavy-ion beam irradiated tungsten beam-blocker for generating Lu-172	SATIJA, Samridhi
17:45	[336] Mass Measurement of the ^{123}Pd with the Rare-RI Ring in RIKEN	LI, HONGFU

parallel session - conclave (6 Jun 2023, 16:45 - 18:00)**-Convener: Julia Even**

time	[id] title	presenter
16:45	[561] Gamow-Teller Giant Resonance in ^{11}Li neutron drip line nucleus	STUHL, László
17:00	[300] β -decay of ^{36}Mg and ^{36}Al : Identification of a long-lived isomer in ^{36}Al	LUBNA, Rebeka Sultana
17:15	[407] Measurement of reaction cross section for ^{17}F with a solid hydrogen target	MORIGUCHI, Tetsuaki
17:30	[341] First characterization of Short-Range Correlations in an exotic nucleus at R3B	LAGNI, Andrea
17:45	[514] Gamma-ray spectroscopy of the neutron-rich Sc isotopes	ZIDAROVA, Radostina

poster session - paneterie (6 Jun 2023, 18:00 - 20:00)

Wednesday, 7 June 2023

plenary 09 - Conclave (7 Jun 2023, 08:45 - 10:25)

-Convener: Magdalena Górska

time [id]	title	presenter
08:45 [550]	Laser spectroscopy of the Heaviest Elements	RAEDER,
09:10 [319]	Extremely neutron-rich nuclei beyond the drip line	KONDO, Yosuke
09:35 [646]	Nuclear collectivity studied with the newly refurbished Miniball spectrometer at HIE-ISOLDE	GAFFNEY, Liam
10:00 [639]	OEDO-SHARAQ system: Its multifaceted performance and recent experimental	MICHIMASA, Shin'ichiro

coffee break - paneterie / salle des gardes (10:25 - 11:00)

plenary 10 - Conclave (7 Jun 2023, 11:00 - 12:45)

-Convener: Gerda Neyens

time [id]	title	presenter
11:00 [645]	Global ab initio calculations for the structure of exotic and heavy nuclei	HOLT, Jason
11:25 [384]	Determination of the Neutron Dripline at F and Ne and Discovery of the Heaviest Na Isotope: ^{39}Na	SUZUKI, Hiroshi
11:50 [590]	The AGATA γ -ray tracking array at the LNL TANDEM-ALPI-PIAVE facility	BRUGNARA, Daniele
12:15 [389]	Discovery of isotopes and first time broadband measurements of neutron-deficient light lanthanides via high precision mass spectrometry	HORNUNG, Christine

lunch break - espace Jeanne Laurent (12:45 - 14:30)

plenary 11 - Conclave (7 Jun 2023, 14:30 - 16:10)**-Convener: Paul Fallon**

time [id]	title	presenter
14:30	[294] High-resolution gamma-ray spectroscopy at a neutron beam: news from ILL	MICHELAGNOLI, Caterina
14:55	[313] High-resolution in-beam \$\gamma\$-ray	MOON, Byul
15:20	[513] Super-allowed alpha decay to doubly-magic \$^{100}\text{Sn}	SEWERYNIAK, Dariusz
15:45	[653] Studies of exotic isotopes using laser ionization techniques and trapped ion techniques	DE GROOTE, Ruben

coffee break - paneterie / salle des gardes (16:15 - 16:45)**plenary 12 - Conclave (7 Jun 2023, 16:45 - 18:00)****-Convener: Iris Dillmann**

time [id]	title	presenter
16:45	[416] What are the fingerprints of nucleosynthesis?	ONG, Wei Jia
17:10	[398] Axial Shape Asymmetry and Configuration Coexistence in Neutron-Rich \$^{74}\text{Zn}\$	ROCCHINI, Marco
17:35	[453] Recent progress of mass measurements for short-lived nuclides at CSRe-Lanzhou	WANG, Meng

poster session - paneterie (7 Jun 2023, 18:00 - 20:00)**Thursday, 8 June 2023****plenary 13 - Conclave (8 Jun 2023, 08:45 - 10:25)****-Convener: Piet Van Duppen**

time [id]	title	presenter
08:45	[363] Studies of astrophysically important reactions using rare isotope beams at TRIUMF	LENNARZ, Annika
09:10	[494] Latest results from MARA	UUSITALO, Juha
09:35	[345] Charge-changing reactions of atomic nuclei and implications on the neutron skin thickness	SUN, Baohua
10:00	[442] Doubly magic \$^{78}\text{Ni}\$ as a beta-delayed neutron precursor	RYKACZEWSKI, Krzysztof

coffee break - paneterie / salle des gardes (10:25 - 11:00)

Thursday, 8 June 2023 (continued)

parallel session - Tresorier (8 Jun 2023, 11:00 - 12:45)

-Convener: Klaus Wendt

time [id]	title	presenter
11:00	[297] Measurement of the bound-state beta decay of highly charged ions $^{205}\text{Ti}^{81+}$	CHEN, Rui-Jiu
11:15	[391] Nuclear structure of Pd isotopes via optical spectroscopy	GELDHOF, Sarina
11:30	[324] Laser Spectroscopy of the Hyperfine Splitting in $^{208}\text{Bi}^{82+}$	HORST, Max
11:45	[364] High-precision collinear laser spectroscopy - An all-optical nuclear charge radius of ^{12}C	IMGRAM, Phillip
12:00	[460] Production of medical grade Ac-225 with resonant laser ionization and mass separation at CERN MEDICIS	JOHNSON, Jake
12:15	[477] Measurements of β -delayed one and two neutron emission probabilities south-east of ^{132}Sn within the BRIKEN project at RIKEN	VI, Phong
12:30	[360] Nuclear and molecular physics studies with laser spectroscopy of radioactive molecules	ATHANASAKIS-KAKLAMANAKIS, Michail

parallel session - Conclave (8 Jun 2023, 11:00 - 12:45)

-Convener: Daniel Bazin

time [id]	title	presenter
11:00	[540] First results with the Advanced Rare Isotope Separator (ARIS) at FRIB	TARASOV, Oleg
11:15	[446] Evolution of the neutron 1d spin-orbit splitting in ^{35}S and ^{39}Ca	JONGILE, Sandile
11:30	[309] 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	MACGREGOR, Patrick
11:45	[537] Medical Radioisotope Production Using Inverse Kinematics	DIAS RODRIGUES, Marcia
12:00	[437] Light-exotic nuclei studied with the (t,p) reaction in inverse kinematics using HELIOS	WUOSMAA, Alan
12:15	[428] Spectroscopy of heavy neutron-rich $N > 126$ nuclei at RIKEN	MORALES LÓPEZ, Anabel
12:30	[526] Precision Lifetime Measurements of Excited States in ^{38}Si and ^{36}Si	GRINDER, Mara

lunch break - espace Jeanne Laurent (12:45 - 14:30)

parallel session - conclave (8 Jun 2023, 14:30 - 16:15)**-Convener: Michael Block**

time	[id] title	presenter
14:30	[426] Developments in muonic x-ray spectroscopy	HEINES, Michael
14:45	[343] Study of alpha particle production in the ${}^6\text{He} + {}^9\text{Be}$	C. C. PIRES,
15:00	[480] Recent Nuclear Structure Studies at N=50 Through Masses of Isomeric States	NIES, Lukas
15:15	[600] Combined Mass and Half-life Measurements with TITAN's MR-TOF-MS	WALLS, Coulter
15:30	[451] The SLOWRI/MRTOF-MS project at BigRIPS and new insights into the N=34 effect above the Ca isotope chain	ROSENBUSCH, M.
15:45	[558] High-precision mass measurements of ground and isomeric states of (super)heavy nuclides with SHIPTRAP	GUTIÉRREZ, Manuel J.
16:00	[340] The new Atomic Mass Evaluation (AME2020)	HUANG, Wenjia

parallel session - Tresorier (8 Jun 2023, 14:30 - 16:15)**-Convener: Filip Kondev**

time	[id] title	presenter
14:30	[524] Possible Existence of Extremely Neutron-Rich Superheavy Nuclei in Neutron Star Crusts Under a Superstrong Magnetic Field	SEKIZAWA, Kazuyuki
14:45	[471] Ab initio calculation of the ${}^3\text{He}(\alpha, \gamma) {}^7\text{Be}$ astrophysical S factor	ATKINSON, Mack
15:00	[342] Is there a dark decay in ${}^6\text{He}$?	LE JOUBIOUX, Marius
15:15	[308] A systematic analysis of nucleon emission in deuteron-induced reactions	CARLSON, Brett
15:30	[318] Spectroscopic Factor Investigation in the N=40 Island of Inversion	PORZIO, Carlotta
15:45	[611] Measurement of the Fierz interference term in ${}^{20}\text{F}$ decay	NAVILIAT-CUNCIC, O.
16:00	[598] Decay spectroscopy around neutron-rich ${}^{33}\text{Mg}$ to probe an 'island of inversion'	ZIDAR, Tammy

coffee break - paneterie / salle des gardes (16:15 - 16:45)

parallel session - conclave (8 Jun 2023, 16:45 - 18:00)

-Convener: Rafael Ferrer

time [id]	title	presenter
16:45	[512] KDK: first measurement of the rare electron-capture decay of 40K to the ground state of 40Ar	DI STEFANO, Philippe
17:00	[466] Onset of deformation in the neutron-rich krypton isotopes via transfer reactions with the ISOLDE	DOLAN, Annie
17:15	[587] Radiation-detected NMR for chemistry and life-science studies using unstable nuclei	KOWALSKA, Magdalena
17:30	[497] Structure of A=22 analogue states revealed through mirrored-transfer	HENDERSON, Jack
17:45	[381] Constraining the electron-capture rates of neutron-rich nuclei with the (d,2He reaction in inverse kinematics.	RAHMAN, Zarif

parallel session - Tresorier (8 Jun 2023, 16:45 - 18:00)

-Convener: Wilfried Nörterhäuser

time [id]	title	presenter
16:45	[405] The ISOLDE RILIS at 30	CHRYSALIDIS, Katerina
17:00	[618] The PUMA experiment at CERN	WIENHOLTZ, Frank
17:15	[568] First beta-delayed spectroscopy of neutron-rich Cl isotopes with FDSi	COX, Ian
17:30	[574] First beta-delayed neutron spectroscopy of doubly-magic 24O.	NEUPANE, Shree
17:45	[506] Study of the $^{10}\text{Be}(\text{t},\text{p})^{12}\text{Be}$ reaction with the SOLARIS spectrometer	MUÑOZ RAMOS, Alicia

aperitif on the Pont Benezet - access via Espace Jeanne Laurent (8 Jun 2023, 18:45 - 20:00)**ARIS conference dinner - Espace Jeanne Laurent (8 Jun 2023, 20:00 - 00:01)**

Friday, 9 June 2023

plenary 14 - conclave (9 Jun 2023, 08:45 - 10:25)

-Convener: Maria J G. Borge

time [id]	title	presenter
08:45	[613] beta-decay studies of neutron-rich isotopes in the region around double-magic ^{132}Sn	KORGUL, Agnieszka
09:10	[328] Materials Science with radioactive isotopes – results from emission Mössbauer Spectroscopy	MASENDA, Hilary
09:35	[655] Probing Nuclear and Particle Physics Phenomena with Radioactive Molecules	GARCIA RUIZ, Ronald
10:00	[334] From Tensor Currents to Solar Neutrinos: Precision Beta-Decay Studies of ^8Li and ^8B	GALLANT, Aaron

coffee break - paneterie / salle des gardes (10:25 - 11:00)

plenary 15 - conclave (9 Jun 2023, 11:00 - 12:30)

-Convener: Yuhu Zhang

time [id]	title	presenter
11:00	[311] CERN-MEDICIS: a unique facility for the production of non-conventional radionuclides for medical research	DUCHEMIN, CHARLOTTE
11:25	[649] Accessing nuclear structure with high-energy nuclear collisions (<i>presentation sponsored by NUPECC</i>)	GIACALONE, Giuliano
11:50	[527] Present status and future prospect of the SCRIT electron scattering facility	TSUKADA, Kyo
12:10	[622] The Future of the GANIL facility	GRÉVY, Stéphane

NUPECC poster prize giving - conclave (9 Jun 2023, 12:30 - 12:40)

-Convener: Marek Lewitowicz

Next ARIS ? - conclave (9 Jun 2023, 12:40 - 12:45)

-Convener: Wolfram Korten

Good bye!

ARIS2023 Poster Contributions (sorted by track)

id	abst	Submitter	affiliation	Title	track
1	320	Morganne	BOUTEUCLET	IJCLab/CNRS	applications
2	321	Antonietta	Donzella	Università di Brescia	applications
3	377	Emil	Traykov	IPHC	Li-8 and He-8 beams for hadrontherapy
4	482	Keisuke	Saito	Nagoya University	Development of 14C cavity ring-down spectroscopic system for biomedical tracer and environment applications
5	491	Arnaud	Guerlin	CNRs/IN2P3	MEASUREMENTS OF 161TB PRODUCTION CROSS SECTION FOR NUCLEAR DATA AND NUCLEAR MED applications
6	501	Etienne	NIGRON	GIP ARRONAX	Is $70Zn(d,x)67Cu$ the best way to produce $67Cu$ for medical applications?
7	510	Chloe	Kleinfeldt	Michigan State University - Facility fcd	Conversion coating method development for thin-film vanadium targetry
8	592	Vladyslav	Bodnar	Michigan State University - Facility fd	Evaluation of metal-organic frameworks for room temperature noble gas harvesting at the Facility fcd
9	621	Erika	Jajčišnová	KU Leuven	Towards a cyclotron production of Ac-225 for targeted alpha therapy
10	629	Claire	Deville	Technical University of Denmark	Improved procedures for La-135 cyclotron production and purification
11	656	Samuel	Kim	BNL	Reactor Antineutrino Spectral Excess: Cumulative Fission Yield Measurement Using Gamma-Ray Spectroscopic applications
12	335	Brenden	Longfellow	Lawrence Livermore National Labora	Solar Neutrinos and Physics Beyond the Standard Model Probed through Boron-8 Beta Decay
13	352	Eleanor	Ronning	Michigan State University	Total Absorption Spectroscopy of Ground and Isomeric States in ^{70}Cu
14	368	Jinti	Barman	Indian Institute of Technology Roorkee	Effect of Halo and Bubble Nuclei in Limited Abundance Calculations Relevant for the r-process
15	371	Anna	Kawecka	Chalmers University of Technology	Fission, gamma rays and the r-process
16	505	Paul	Proust	Institut de physique des deux infinis	The role of tensor forces in polarised nuclear matter
17	597	Pelagia	Tsintari	Central Michigan University	A new technique for direct (n,p) reaction measurements of astrophysical interest using radioactive astro facilities
18	301	Gabriel	Tabacaru	Cyclotron Institute, Texas A&M Univ	New Technique of Injecting Radioactive Ions into Charge Breeding ECR Ion Source
19	304	CheongSoo	LEE	Institute for Basic Science, KOREA	Performance Test of Beam Drift Chamber for LAMPS
20	305	HyoSang	Lee	Institute for Basic Science, Korea	Development of LAMPS Time Projection Chamber at RAON
21	322	Shumpei	Noji	Facility for Rare Isotope Beams, Mich	Design of the High Rigidity Spectrometer at the Facility for Rare Isotope Beams
22	339	Jonas	Stricker	Johannes Gutenberg-Universität Mai	Production of highly charged and molecular thorium ions for fundamental physics
23	375	Maria Vittoria	Managlia	Chalmers University of Technology	Detecting fission fragments at ISS
24	378	Mathias	Gerbaux	LP2IB - Université de Bordeaux	A DESIRable radiofrequency cooler and buncher: the GPIB
25	386	Thorben	Niemeyer	Universität Mainz	Towards implantation of pure Fe-55 for radioactivity standardization by low temperature devices
26	422	Julia	Even	University of Groningen	The NEXT setup to study Neutron-rich Exotic nuclei produced in multinucleon Transfer reactions
27	425	Asahi	Yano	Univ. of Tsukuba	Development of a Thick Solid Deuterium Target
28	445	Jinn Ming	Yap	Department of Physics, The Universiti Gas Cell Development using a 248Cm Fission Source at the ZD MIRTOF	Mass Spectrograph at RIBF
29	472	Yu Hu	Zhang	Institute of Modern Physics, Chinese	B\$\backslash\$rho-defined isochronous mass spectrometry using two TOF detectors at CSRe-Lanzhou
30	474	Hideki	Tomita	Nagoya University	Development of Ti:Sapphire laser system for resonance ionization laser ion source, PALIS RIKEN
31	475	Xu	Zhou	IMP-Lanzhou	Precision velocity measurements of ions in the storage ring CSRe-Lanzhou
32	478	Hervé	Savajols	GANIL/CNRS	The Super Separator Spectrometer (\$\backslash\$SPIRAL2
33	487	Dinko	Atanasov	LP2IB	Technical progress at the double Penning trap PIPERADE
34	515	Enrique	Minaya Ramirez	IJCLab	The ALTO facility of IJCLab
35	516	Sam	Porter	University of Notre Dame	Beta-neutrino angular correlation measurements of mirror transitions with St. Benedict
36	532	Daniel	Burdette	Argonne National Laboratory	Beta-Delayed Neutron Spectroscopy of Californium-252 Fission Fragments with BEARtrap at Argon
37	548	Sophie	Morard	IJCLab	Recent Progress with the MLTRAP double Penning Trap Mass Spectrometer at ALTO
38	559	Zhong	Liu	IMP, CAS	New Super-pulse Fitting Algorithms for Decomposing Pulse-up Pulses and Application to the \$\backslash\$alpha facilities
39	563	Robert	Baik	iThemba LABS	The South African Isotope Facility and Low-Energy Radioactive-Ion Beam Project

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40	571	Mitzi	Urquiza	HÜBNER Photonics	High-resolution spectroscopy of exotic silver with a cw OPO injection-seeded PDA.	facilities
41	573	Simon	Vanlangendonck	KU Leuven	Inium Energy Spectrum Shape (InESS) at WISARD	facilities
42	581	Jens	Lassen	TRIUMF - Canada's particle acceleratorat	Advances in TRIUMF's resonant ionization laser ion source	facilities
43	586	Lucia	Caceres	CEA-GANIL	Production and laser spectroscopy studies of stable palladium	facilities
44	589	RuoHong	Li	TRIUMF, Canada	Development of the polarizer facility at TRIUMF	facilities
45	594	Aurelia	Laxdal	TRIUMF	Higher rare isotope yields at ISAC TRIUMF using proton beam rastering	facilities
46	603	Matt	Amthor	Bucknell University	Advanced Spectrometer and Separator Tuning for Commissioning or New Operational Modes	facilities
47	630	Tim Enrico	Lellinger	CERN	Towards a collinear laser spectroscopy setup with 1 ion/s sensitivity	facilities
48	635	Aili	Aphramian	U. Notre Dame	RF timer based time-of-flight spectrometer for the measurement of the absolute energy of alpha particles	facilities
49	648	Fredrik	Pannefjord Gustafsson	KU Leuven	Synthesis of cold highly charged radionuclci using antiprotons	facilities
50	303	Xing	XU	Institute of Modern Physics, Chinese	Synthesis of cold highly charged radionuclci using antiprotons	ground-state
51	306	Sacha	Daumas	CNRS	Breakdown of the Isobaric Multiplet Mass Equation at $\Delta A = 54\$, \Delta T = 3\$$	ground-state
52	373	Nina	Kneip	Johannes Gutenberg University Mainz	Searching for CP-violation in nuclear beta decay: First results of the MORA experiment	ground-state
53	390	Jianwei	Zhao	GSI Helmholtzzentrum für Schwerionenforschung	Investigation of the atomic and nuclear structures of $\Delta(244-248)\$^{+}$ cm	ground-state
54	423	Magdalena	Kaja	Johannes Gutenberg-Universität Mainz	Measurements with the FRS Ion Catcher in the region below $\Delta(100)\$^{+}$ Sn and on the $\Delta(252)\$^{+}$ Cf spot	ground-state
55	440	Kristian	König	TU Darmstadt	Hyperfine structure and isotope shift in the atomic spectrum of neptunium	ground-state
56	447	Yuanming	Xing	IMP, CAS	Collinear laser spectroscopy in medium-mass elements at BECOLA	ground-state
57	448	Matou	Stemmler	Johannes Gutenberg-Universität Mainz	Mass measurement of neutron-deficient $T_{1/2} = 3/2$ nuclides at CSRe	ground-state
58	456	Patrick	Müller	TU Darmstadt	Resonance Ionization Mass Spectroscopy on Americium	ground-state
59	459	Dongsheng	Hou	Institute of Modern Physics, Chinese	The nuclear charge radius of $\Delta(13)\$^{+}$ C	ground-state
60	470	Anjali	Ajayakumar	CNS, University of Tokyo	Mass measurement in the neutron-rich Mo region using the new ZD MRTOF system	ground-state
61	473	Shutaro	Hanai	GANIL	First in-gas-jet laser spectroscopy with $\Delta(33)\$^{+}$ -LEB	ground-state
62	565	Pauline	Ascher	CENBG	Direct mass measurement of neutron-deficient Fe isotopes	ground-state
63	577	Mohamad	Kanafani	LPC-Caen	Penning-trap mass measurements of neutron-rich Rh and Ru nuclei at GSIOL/JYFL	ground-state
64	588	Laura	Renth	Technische Universität Darmstadt	b-STILLED: Search for Tensor Interactions in nuclear b-Eta Decay	ground-state
65	591	Mark	Bissell	CERN	Collinear Laser Spectroscopy on Neutron Rich Palladium Isotopes	ground-state
66	332	Michael	Serkow	FRIB/MSU	Magnetization distribution from hyperfine anomaly measurements	ground-state
67	351	Tom	Génard	GANIL	Study of 11Be excited states via the $^{10}\text{Be}(d,p)$ reaction in SOLARIS with the AT-TPC	reactions
68	427	Pengjie	Li	The University of Hong Kong	Characterization of the participant zone in $\text{Xe}+\text{Sn}$ collisions	reactions
69	436	Daniel	Bazin	Michigan State University	Cluster structure of neutron-rich beryllium isotopes probed by cluster knockout reactions in inverse reactions	reactions
70	438	Rurie	Mizuno	University of Tokyo	Recent results with the Active Target Time Projection Chamber	reactions
71	449	Deepak	Kumar	GSI Helmholtzzentrum für Schwerionenforschung	Study of muon capture reaction on Si via in-beam muon activation	reactions
72	509	Andrew	Ratkiewicz	Lawrence Livermore National Lab	Investigation on isomeric ratio of $\Delta(211)\$^{+}$ Po produced via MNT approach using $\Delta(138)\$^{+}$ Ge + $\Delta(12)\$^{+}$ reactions	reactions
73	520	Bogumił	Zalewski	University of Warsaw	Surrogate Reactions in the FRIB Era -- New Challenges and Opportunities	reactions
74	547	Xiaohui	Sun	Huzhou University	Elastic scattering of $^{6}\text{He}+\text{d}$ at 26 MeV/A	reactions
75	632	Quentin	DELIGNAC	LP21 Bordeaux	Cross-section measurement in proton-, deuteron- and carbon-induced reactions on ^{135}Xe in inverse reactions	reactions
76	330	Silvia	Bara	IKS, KU Leuven	Study of proton and neutron excitations along Silicon isotopes between N=20 and N=28	reactions
77	361	Hao	Jian	IMP-CAS Lanzhou	Beta-delayed fission of neutron-rich actinides	spectroscopy
78	362	Peng	Shuai	Institute of Modern Physics, Chinese	β -delayed proton decay of ^{23}Si and isospin symmetry breaking	spectroscopy
79	376	MASSYL	iCLab PhD	HICAR	In-beam gamma-ray spectroscopy of the exotic ^{79}Cu with HICAR	spectroscopy

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80	382	Antoine Barrière	GANIL	Study of the tensor force contribution in the N isotopic chain using QFS reactions	spectroscopy
81	383	Frank (Tongan) Wu	Simon Fraser University	Searching for Alpha-Cluster States in $\Delta^{[126]}\text{Te}$	spectroscopy
82	394	Nikhil Mozumdar	Technische Universität Darmstadt	Search for near-threshold multi-neutron resonances in (p,2p) reactions with neutron-rich nuclei at	spectroscopy
83	395	Michael Roosa	Texas A&M University	In Search of $\Delta^{[12]}\text{Be}$ using TexAT TPC	spectroscopy
84	402	James Smallcombe	Japan Atomic Energy Agency	Study of 70,72Se nuclear shapes with SPICE and TiGRESS	spectroscopy
85	403	Yufeng GAO	Institute of Modern Physics, CAS	β -decay spectroscopy of 28S	spectroscopy
86	413	Meidi Mogannam	Michigan State University	Extracting β -decay strengths from 73Co using the Summing Nal (Sun) Total Absorption Spectromet	spectroscopy
87	420	Jiajian Liu	Institute of Modern Physics	Strongly isospin-mixed doublet in 26Si observed by β decay of 26P	spectroscopy
88	484	Magda Satrazani	University of Liverpool	Shape studies in neutron-rich cerium isotopes	spectroscopy
89	508	Maria Jose Garcia Borge	Instituto de Estructura de Materia	Elucidating the structure of the 16.6 - 16.9 MeV doublet of $\Delta^{[8]}\text{Be}$ through β -decay feeding	spectroscopy
90	519	Bernadette Rebeiro	GANIL and University of the Western	Exploring low-lying states in 136Cs and 136Ba relevant for 136Xe neutrinoless double beta decay	spectroscopy
91	529	Wenqiang Zhang	Institute of Modern Physics, Chinese	New structure features revealed in isomeric spectroscopy in the Z ~ 82, N ~ 104 region	spectroscopy
92	566	Michał Stepienik	University of Warsaw	Beta decay of neutron rich bromine isotopes studied by means of Modular Total Absorption Spectr	spectroscopy
93	593	Rashmi Umasankar	University of British Columbia/TRIUMF	β -decay of 68Mn: Probing the N=40 island of inversion	spectroscopy
94	296	Réka Szilvási	Budapest University of Technology a	Complex-energy based description of alpha-tunneling in intense laser fields	theory
95	315	Mitko Gaidarov	Institute for Nuclear Research and Ni	Microscopic study of nuclear monopole excitations	theory
96	337	Shuichiro Ebata	Graduate School of Science and Engi	Charge polarization on the fission fragments from U-236 calculated with a time-dependent mean-fi	theory
97	346	Pedro Punta de la Herrán	Universidad de Sevilla	Deformed two-body models for exotic nuclei applied to transfer reactions	theory
98	388	Moemii Matsumoto	Tohoku University	Visualization of nuclear many-body correlations in microscopic wave functions	theory
99	455	Adrian Sanchez Fernandez	University of York	Two-centre self-consistent approach to fission with arbitrary distance, deformations and orientatio	theory
100	468	Herlik Wibowo	University of York	Systematic nuclear-DFT calculations of electromagnetic moments of $\Delta^{[1]}\text{p}17/2^{[+1]}$ and $\Delta^{[1]}\text{n}11/2^{[-1]}$	theory
101	469	Martin Ivanov	Institute for Nuclear Research and Ni	Charge-current and neutral-current quasielastic (anti)neutrino scattering on $\Delta^{[1]}\text{p}17/2^{[-1]}$ and $\Delta^{[1]}\text{n}11/2^{[-1]}$	theory
102	488	Xuwei Sun	University of York	Nuclear collective inertia in the adiabatic time-dependent Hartree-Fock-Bogoliubov method	theory
103	498	Jose Luis Rodriguez Sanchez	University of Coruña	Study of medium-mass and heavy hypernuclei produced through spallation and fission reactions in	theory
104	539	Yusuke Tanimura	Tohoku University	$\Delta^{[1]}\text{Xi}$ hypernuclei $\Delta^{[15]}\text{Xi}$ and $\Delta^{[12]}\text{Xi}$, and the $\Delta^{[1]}\text{Xi}$ two-body interaction	theory
105	545	Himanshu Kuma Singh	Indian Institute of Technology Bom	Investigation of axial shape in $\Delta^{[130]}\text{La}$ through lifetime measurements	theory

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60	470	Anjali	Ajayakumar	First in-gas-jet laser spectroscopy with \$^3S\$-LEB
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1	320	Morgane	BOUTECULET	Production of Tb-155 with highly enriched targets : first results
36	532	Daniel	Burdette	Beta-Delayed Neutron Spectroscopy of Californium-252 Fission Fragments with BEARtrap at Argon
43	586	Lucia	Caceres	Production and laser spectroscopy studies of stable palladium
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10	629	Claire	Deville	Improved procedures for La-135 cyclotron production and purification
2	321	Antonietta	Donzella	Production and characterization of 111Ag in a TRIGA Mark II reactor for medical use in the Italian I
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58	456	Patrick	Müller	The nuclear charge radius of \$^{13}C\$

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73	520	Bogumił	Zalewski	Elastic scattering of $^{6}\text{He} + \text{d}$ at 26 MeV/A	reactions
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