EUROSCHOOL

ON EXOTIC BEAMS

2024

25th AUGUST – 31th AUGUST

JYVÄSKYLÄ, FINLAND

PHOTOBOOK

www.euroschoolonexoticbeams.be

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Participants



I am a Ph.D. student specializing in nuclear, and experimental physics. Throughout my doctoral studies, my research has been focused on the beta- decay of exotic nuclei, specifically exploring the intricacies of these decay processes. I have been affiliated with the University of Warsaw for ten years now.

Anna Abramuk

PhD student
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I'm a first year PhD student at the physics department of the University of Jyväskylä. My research is in collaboration with the Radiation and Nuclear Safety Authority in Finland and focuses on the development of novel methods for enhancing detection and response to nuclear security incidents. I'm also part of the Nuclear Spectroscopy group and participate in the group's activities.

Philson-Amanda Aden

PhD student
University of Jyväskylä
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I am a second-year PhD student at the Institute for Nuclear and Radiation Physics (IKS) at KU Leuven, Belgium. Currently, I am based at ISOLDE/CERN working with Collinear Resonance Ionization Spectroscopy (CRIS) experiment where we perform laser spectroscopy on exotic nuclei for nuclear structure studies.

Osama Ahmad

PhD student
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I'm Giuseppe, a first-year PhD student from Padova, Italy, working at the Legnaro National Laboratories. My field of research is the experimental nuclear physics, in particular gamma spectroscopy and a bit of reaction dynamics. Currently I'm analyzing an experiment in which we are trying to observe an interesting effect, called nuclear Josephson Effect.

Giuseppe Andreetta

PhD student
UNIPD & INFN-LNL
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I am at the end of my first year of my Ph.D at the University of Caen, France, in the nuclear structure group of LPC Caen (Laboratoire de Physique Corpusculaire of Caen). We focus our work on exotic nuclei far from the stability line of the nuclear chart, with significant asymmetry between the number of protons and the number of neutrons. My research topic is the multineutron correlation in the decay of heavy helium isotopes, especially the tetraneutron. This hypothetical nucleus would be made of four neutrons only. To do so, I am analyzing data from an experiment done at the RIKEN research center (Japan) in 2017 and performing simulation using GEANT4. I also participate in experimental campaigns related to neutron-rich exotic nuclei at the RIKEN research center.

Audrey Anne

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I am a Ph.D. student at the Doctoral School of Exact and Natural Sciences at the University of Warsaw. I hold both a Bachelor of Science and a Master of Science degree in Nuclear Energy and Chemistry from the same university. Currently, I am pursuing my Ph.D. at the Nuclear Physics Division of the Faculty of Physics at the University of Warsaw. My research focuses on performing calculations with the MCNP code for systems used in the irradiation of biological samples. I am also engaged in the project "Structure of Exotic Nuclei Near the Double Magic Regions of 78Ni and 132Sn".

Martyna Araszkiewicz

PhD student
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I am a graduate student at Louisiana State University, specializing in Nuclear Astrophysics with a focus on nuclear structure. My research explores the nuclear processes driving stellar behavior and the fundamental structure of atomic nuclei. Passionate about unraveling the universe's mysteries, I aim to contribute to scientific discovery through innovative research. Beyond my academic work, I love spending time outdoors, whether it's hiking, camping, or simply exploring nature. I regularly play badminton, am starting to learn rock climbing, and have recently developed an interest in mycology.

Akhil Bhardwaj

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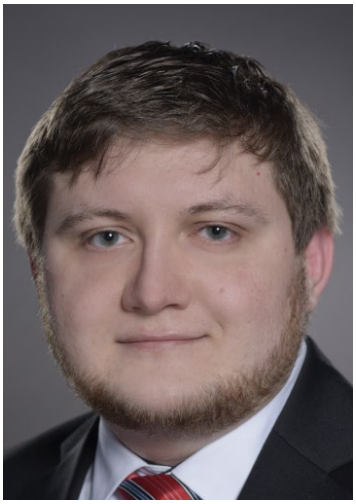

Hey, I'm Dennis Bittner from the University of Cologne. I earned my master's degree under Professor Jolie in the fast timing technique. Currently, I am developing in Cologne a Beam profile monitor for FAIR.

Dennis Bittner

PhD student
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I am a PhD at the Technical University Darmstadt. Apart from my long-standing fascination with nuclear physics I have recently also gained an interest in the use of lasers and laser spectroscopy, which is also reflected in the topic of my master thesis and my PhD project. Apart from physics I love hanging out with my friends and playing video games with them, as well as everything surrounding the discourse around modern media and the classics.

Hendrik Bodnar

PhD student
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My name is Ville Bogdanoff, and I am a third-year PhD student at the Department of Physics at the University of Jyväskylä. My dissertation focuses on the development of advanced radiation detection equipment for nuclear and radiation safety industries. I also participate in fundamental research in the accelerator laboratory of the University of Jyväskylä and am involved in various other projects in collaboration with the Finnish Radiation and Nuclear Safety Authority.

Ville Bogdanoff

PhD student
University of Jyväskylä
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My name is Jeroen Bormans. I was born and raised in South Africa where I studied my Bachelors and Masters at the University of Stellenbosch. I have since then moved to Germany to do my PhD at TU Darmstadt, but I am physically working at GSI. I enjoy physics (of course), having a laugh, good food and catching waves in the ocean.

Jeroen Bormans

PhD student
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My name is Miriam. I come from Spain and I am 23 years old. Currently, I am in my first year of an experimental Nuclear Physics PhD at Universidad Complutense de Madrid.

Miriam Caballero Rodriguez

PhD student
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I am Anita Candiello. I am Italian and I was born in Venice. I graduated with a Master in Physics at the University of Padua. In 2021 I went abroad to work on my thesis project at the Physics Department of KU Leuven, where I collaborated with a research group dedicated to the study of the structure of exotic nuclei. In October 2022 I started a PhD in Nuclear Physics on the study of the electromagnetic nuclear moments and on laser spectroscopy techniques. For my research I work in collaboration with KU Leuven, in Belgium, and the University of Jyväskylä, in Finland.

Anita Candiello

PhD student
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I'm a second year PhD student working in Orsay, France. I study experimental nuclear physics by the mean of a linear accelerator that stands right next to my working office, where radioactive nuclei are produced through the ISOL technique. More specifically, I am studying the neutron rich nucleus 84Ga which was produced in an experiment in November 2023 in the context of my Phd program. This nuclei is interesting because it undergoes beta-delayed one or two neutron emission which is a process that can teach us more about the structure of nuclei above neutron emission threshold. I have a second experiment planned in November 2024 where the energy of these neutrons will be measured in order to have a full decay spectroscopy of this nucleus.

Emile Cantacuzène

PhD student
IJCLab
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I am a first-year joint PhD student at the University of Jyväskylä and GANIL (University of Caen), focusing on laser spectroscopy of neutron-deficient palladium isotopes as part of the IGISOL group Prior to this I was an Erasmus Mundus Nuclear Physics student, happily trading textbooks for sunshine as I explored Europe. When I'm not in the lab tweaking lasers or wrestling with cables, you will find me working on my flute projects, swimming or biking around in the Finnish forests, or diving into a game of beach volleyball.

Saikumar Chinthakayala

PhD student
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I am a PhD student at the University of Groningen, The Netherlands. My doctoral research focuses on two experimental setups: NEXT (University of Groningen) and RITU (University of Jyväskylä). At NEXT, I have commissioned a gas stopping cell that will be connected in the near future to the AGOR accelerator in Groningen. Recently, I took part in an experiment conducted at RITU, to investigate the production of transfer products of the reaction between a 64-Ni beam and a 238-U target. Currently my focus lies in analyzing the data obtained from this experiment.

Jennifer Brigitte Cipagauta Mora

PhD student
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I am a PhD student in nuclear DFT involving strong multipole deformations applied to heavy, superheavy, and exotic isotopes, namely in the Actinides region of the nuclear chart, using the recently adjusted Fayans functionals.

Gauthier Danneaux

PhD student
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I am a PhD student at IKP, TU Darmstadt, Germany. I work in the LISA group at GSI Darmstadt. I did my Master's in Physics from IIT (ISM) Dhanbad, India. Before joining my PhD, I used to work as a Junior Data Engineer in TCS, India for around 1.5 years. I like to play football, badminton, cricket, archery and ice-skating. In my free time I like to watch movies.

Debajyoti Das

PhD student
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I started my journey in science by studying physics at KU Leuven - campus KULAK. After obtaining my bachelor's degree, I dove deeper into the world of nuclear physics for my master's degree. In my master thesis, I tried to improve ways to produce medical nuclides, both from a ISOL point of view and an implantation point of view. Now, I am a first year PhD student with KU Leuven, as an FWO fellow, where I will use muonic x-ray spectroscopy for measuring the absolute nuclear charge radius of 107Ag, 108mAg and 109Ag for benchmarking laser spectroscopy studies on silver. This project spans from the production of the radioactive 108mAg target, via neutron irradiation and ISOL, towards the muonic x-ray spectroscopy on the triplet of silver. As a small side-quest, I am investigating self-sputtering, due to this effect earlier implanted particles might be lost from the foil upon implantation of new particles. This is both relevant for fundamental research and medical isotope collections. Apart from physics, I enjoy bouldering, gymnastics and calligraphy!

Marie Deseyn

PhD student
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(he/him), Nuclear Spectroscopy at GSIDE Eats a MILSANI Skyr Frucht, Erdbeer every day at lunch and likes to enjoy Pepsi Max Cherry in the evening. Knows more about the construction of the Panama Canal than his own PhD topic. I taught high school chemistry for two years before starting my PhD and was chosen second smartest teacher in the yearbook '22/'23😎

Floris Drent

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My name is Beatriz Errandonea Félix, I am a first-year PhD student focused on experimental nuclear physics at Santiago de Compostela University. My thesis is based on the analysis of transfer-induced fission reactions using a 238U beam in inverse kinematics, with experiments conducted at the VAMOS++ spectrometer (GANIL).

Beatriz Errandonea Félix

PhD student
Galician Institute of High Energy Physics (IGFAE) - University of Santiago de Compostela (USC)
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I'm a first year PhD student working in atomic and molecular laser spectroscopy.

Carlos Mario Fajardo Zambrano

PhD student
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I completed my Master's degree in photonics, where I gained knowledge in the physics of lasers and the broader field of light-matter interactions. I am now pursuing research in nuclear physics, focusing on the study of nuclear moments, particularly the octupole moment of strontium isotopes. My work involves utilizing Paul trap to precisely control and investigate these nuclear properties.

Julien Grondin

PhD student
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My name is Yangfan Guo from China. I am a second-year Ph.D student in the School of Physics at Peking University, under the supervision of Prof. Xiaofei Yang. My research focuses on high-precision and high-sensitivity laser spectroscopy technique and the associated structure studies of exotic nuclei, and I will introduce the commissioning and development of an offline Collinear Resonance Ionization Spectroscopy System in China :)

Yangfan Guo

PhD student
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I'm a 3rd year PhD student in Leuven working on absolute charge radii measurements of chlorine and potassium. Besides my own topic, I enjoy helping my colleagues on some laser spectroscopy and decay spectroscopy experiments. Outside of work, I enjoy playing squash, bouldering, solving rubik's cubes, and playing the occasional videogame.

Michael Heines

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I am a first year PhD student at the University of the West of Scotland. I am currently researching the limit of octupole correlations in the light-actinide region of the nuclear chart.

Ben Hogg

PhD student
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Hello, I am Ruth Illicachi, a doctoral student at the University of Valencia, Spain, where I am a member of the AGATA group at IFIC. My research focuses on experimental nuclear physics, particularly using high-resolution gamma-ray spectroscopy techniques to study nuclear structure. Currently, I am studying nuclear structure in proton-rich nuclei, especially those near the line of symmetry N=Z. Originally from Ecuador, I am passionate about science, and I look forward to exchanging ideas and knowledge with researchers at EuroSchool and beyond.

Ruth Illicachi

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I am enjoying Finland and its exquisite weather conditions, ranging from freezing cold outside in nature to burning hot inside of a sauna, from its never ending summer days to its always too long winter nights. The perfect playground for building and commissioning a human-sized stainless-steel LEGO set, in-between hunting for polar lights, hiking and skiing in the forest, swimming in and skating on the lakes.

Arthur Jaries

PhD student
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I'm a first year PhD student from the University of Jyväskylä. In my research, I use computational programs that apply mean field models to study how octupole deformation, i.e. pear-like shape affects different properties of nuclei. Besides physics, I like running, reading and some other activities.

Manu Kanerva

PhD student
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I finished my master's degree in nuclear physics in 2023 at the University of Oslo. I focus primarily on nuclear structure physics and am currently working on a doctorate at CEA Saclay.

Robin Kjus

PhD student
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I'm a PhD student at the Institute for Nuclear and Radiation Physics (IKS) at KU Leuven. My research involves studying the weak interaction through high precision beta decay experiments, specifically measuring the beta spectrum shape. My work so far has consisted mainly of characterising the detectors and performing simulations in preparation for the eventual experiment. In my free time I enjoy walking and knitting.

Charlotte Knapen

PhD student
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Hi! I'm Henna, a second year PhD student at the University of Jyväskylä. I work in the nuclear spectroscopy group. My research is about spectroscopy of neutron deficient At, Fr, and Ac nuclei. Quite often you can find me at the focal planes of our recoil separators MARA and RITU, or building parts for our new MARA-LEB setup. In my spare time I play volleyball and do other sports as well.

Henna Kokkonen

PhD student
University of Jyväskylä
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I am currently a postdoc in the IGISOL group at the university of Jyväskylä, but I did my PhD at TRIUMF in Vancouver, Canada. I am an experimentalist interested in nuclear masses and other low energy nuclear physics which can be studied using traps and innovative methods of detection. In my free time I enjoy rock climbing and vintage technology.

Brian Kootte

PhD student
University of Jyväskylä
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As an undergraduate, I thought nuclear astrophysics would be a 20-minute in-and-out adventure — five years later, I'm doing a PhD in it! I've survived university without coffee, which people think is even crazier than studying exploding stars.

Sándor Kovács

PhD student
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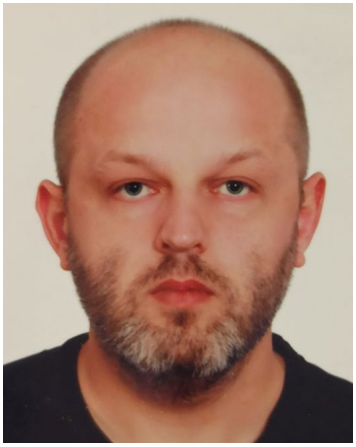

In my work, I focus on studying exotic neutron-rich nuclei. Currently, I am analyzing data from an experiment conducted at the Institut Laue-Langevin (ILL) in 2021 (mass A=105), made available by dr hab. Jan Kurpeta. I perform the analysis using software I have developed, as well as adapting existing programs. Preliminary analysis results have revealed previously unknown lines. Additionally, I have participated in the following experiments: ILL Spring 2023 - measurement of low-energy transitions in odd-odd isotopes of niobium and technetium, IGISOL Autumn 2023 - measurement of 112, 114, 116 Ru, IGISOL March 2024 - Decay studies of A=115 nuclei for nuclear astrophysics. The data analysis and experiments in which I have participated will form the basis of my doctoral thesis. Therefore, the topics discussed at the "Euroschool On Exotic Beams - Jyväskylä, Finland, 2024" will allow me to gain a deeper understanding of the decay spectroscopy of exotic nuclei.

Tomasz Krakowski

PhD student
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I'm a 4th year PhD student, laser spectroscopy.

Sonja Kujanpää

PhD student
University of Jyväskylä
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A passionate explorer of both the cosmos and the human spirit, I am a dedicated football enthusiast who finds as much thrill in the final whistle of a nail-biting match as in the mysteries of the universe. Whether it's a cinematic masterpiece, a gripping series, or the fundamental laws of physics, I dive deep into the narratives that shape our world and beyond. Movies and TV series are my portals to different realities, where I unravel complex characters and intricate plots just as eagerly as I ponder the vast expanse of space and time.

Gururaj Kumar

PhD student
GSI Helmholtzzentrum für Schwerionenforschung GmbH
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I am a second-year PhD student at GANIL. I am working with the SIRIUS detection collaboration at the GANIL-Spiral2 S3 facility. The first part of my thesis involves upgrading the detection system of the SIRIUS setup for particle identification of Super Heavy nuclei(SHN). The goal of this part of my thesis is to implement, in addition to the atomic mass (A) identification provided by S3, an upgrade of SIRIUS setup to detect X-rays (mostly low energy ~20 keV) for validation of the atomic number (Z) of the SHN. The second part of my thesis involves solving the " 244-245Md puzzle ". The two experiments conducted at GSI, Germany and at Berkeley (LBNL) facilities in search of the most neutron-deficient mendelevium(Md) isotope led to two contradicting results. The alpha-decay energies of one isotope (245Md) matched another isotope (244Md) in the Berkeley experiment, while the experiment at GSI reported the alpha-decay energy of 244Md to be much higher than 245Md. To clarify this decay energy and the mass assignment of the Md isotopes another experiment was performed this year at the ATLAS facility of Argonne National Laboratory.

Shayan Kumar

PhD student
GANIL, University of Caen
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I am a doctoral student at IFIC, Valencia, Spain. I am a part of AGATA group and I am currently working on an experiment performed at GSI where I participated as a part of DESPEC collaboration. My research is currently focused on exploring the region around N = 126 shell closure. I am from India where I have pursued my education till post graduation. In future I am interested to work on the development of nuclear models through gamma ray spectroscopy and further contribute in the enhancement of nuclear structure.

Mallicka Kundu

PhD student
Instituto de Fisica Corpuscular (IFIC), Valencia Spain
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My name is Johan Emil and I am a first year PhD student at GSI in Darmstadt, Germany, working with nuclear gamma-ray spectroscopy in the DESPEC collaboration. My main work thus far has involved preparing and completing some experiments earlier in this spring, where I have been especially involved in building and maintaining our Germanium detector array. Now, I am mainly focusing on the data analysis of the nuclear structure properties of rare-earth nuclei from one of the aforementioned experiments.

Johan Emil Linnestad Larsson

PhD student
GSI / TU Darmstadt
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I am a last year Master student at the University of Padova where I chose the Physics of the fundamental interactions path, with particular attention to experimental nuclear physics courses. I am currently working on my Master's thesis in which I study the production of 29S exploiting a fusion-evaporation reaction. In my free time I enjoy reading and exploring new places.

Denise Lazzaretto

PhD student
Università degli Studi di Padova and INFN Padova
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My name's Dave, and I'm going into my 2nd year for a PhD in experimental nuclear structure studies at Michigan State University/FRIB. I'm from a small town in Michigan, USA and have lived in the area ever since. My research interest is in the structure of neutron-rich nuclei, particularly that of halo-nuclei. For fun, I like to lift weights, play video games, and learn history!

David Lempke

PhD student
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I'm a first-year PhD student in nuclear physics at Lund University, Sweden. My research focuses on studying the nuclear structure of tin isotopes through transfer- and Coulomb excitation reactions. The experiments I'm involved with take place at ISOLDE, CERN, using setups like Miniball and ISS. Before starting my PhD, I spent a couple of years working as a software developer. Outside of my academic work, I enjoy reading, playing board games, and going for the occasional jog.

Rafael Antonio Lopez

PhD student
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I am a CERN PhD student supported by TU Darmstadt as a local at the COLLAPS experiment at ISOLDE. My interests lie in experimental nuclear physics, particularly laser spectroscopy. I am working on the neutron deficient Thallium dataset as my PhD data, on regular COLLAPS beamtimes as well as ROC and also on technical developments to the COLLAPS beamline, particularly ion source developments.

Edward Matthews

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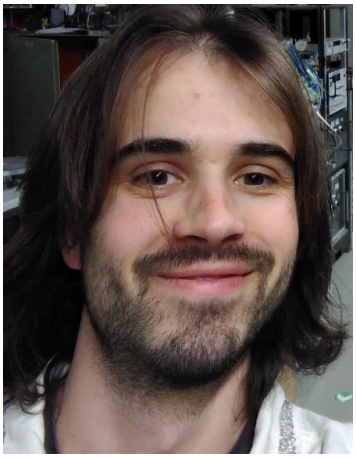

I am a PhD student at TU Darmstadt, Germany. My research interest is concentrated on gamma-ray spectroscopy. I work a lot with Doppler-shift methods in order to obtain lifetimes of excited nuclear states and find out more about the structure of nuclei. Apart from physics, I am interested in Free Software and reading –mainly old– books.

Hannes Mayr

PhD student
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Hello! I am a Ph.D. student in the Department of Physical Sciences, Bose Institute, Kolkata, India. My primary research interest centers on studying the breakup mechanism of the weakly bound, radioactive nucleus 7Be on light targets. I also collaborate with my colleagues on different projects related to Nuclear Astrophysics. Outside of research, I enjoy reading books and watching sports. I have a passion for writing poetry and am enthusiastic about discussing STEM, history, mythology, and geopolitics.

Ritankar Mitra

PhD student
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I am a PhD student in cotutelle between GANIL and JYU. I come from a mathematical/theory background but I am working in experimental nuclear physics, measuring asymmetry of beta emissions from trapped ions (23Mg+) for the MORA experiment. I love fundamental physics and to understand why things work the way they do. On personal interests, I like videogames, reading and just being with my friends :)

Luis Miguel Motilla Martinez

PhD student
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I am a second year PhD student at University of York (UK). I am working in both theoretical and experimental field of nuclear structure. My theory project is to calculate the electromagnetic moments using density functional theory (DFT). The goal is to improve the description of nuclear magnetic moments and determine reliable magnetic corrections to the atomic hyperfine structure using the existing HFODD code. The experimental project is to measure the hyperfine structure constant using rf-laser double resonance spectroscopy which is at ISOLDE, CERN. The focus for the both the projects is on neutron-rich potassium isotopes.

Anu Nagpal

PhD student
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I am a second-year PhD student in the group of accelerator-based materials research in Jyväskylä. I am currently working on a permanent-magnet negative helium ion source, but I want to keep myself updated also on the production and applications of more exotic beams.

Rebekka Nagy

PhD student
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I'm in my first year of PhD at TU Darmstadt in Germany and study nuclear structure with gamma-ray spectroscopy. So far, I mainly applied Doppler-shift techniques, especially using plunger devices, to measure lifetimes of excited states. During my bachelor's and master's I also used the opportunity to work on the superconducting electron accelerator at our institute. I like travelling, both related to physics and in my free time, as well as photography, playing badminton and motorcycling.

Clemens Nickel

PhD student
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Institute for Nuclear Physics
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I'm a first-year PhD student working in the gamma spectroscopy group in Padova, Italy. I'm actively involved in the AGATA campaign at Laboratori Nazionali di Legnaro and working on a direct transfer reaction experiment at GANIL. I love playing basketball, traveling, and hanging out for a beer with friends in my free time!

Raquel Nicolás del Álamo

PhD student
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I am a PhD student specializing in nuclear physics. My research focuses on investigating the nuclear structure of neutron-rich nuclei by analyzing data from beta decay experiments conducted at ISOLDE (CERN, Switzerland) and elastic scattering reactions with active targets (ATTPC) performed at FRIB (Michigan, USA).

David Palacios

PhD student
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I come from an atomic physics background and am now using my experience to get nuclear information by the means of laser spectroscopy at different facilities. So far, I have been participating at laser experiments at ISOLDE, FRIB, ATLAS@ANL, CRYRING and ESR at GSI and of course also our small offline lab in Darmstadt. Currently, I am designing a new beamline for collinear laser spectroscopy at the so called N=126 facility at the ANL near Chicago.

Julian Palmes

PhD student
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My name is Daniel Paulitsch, I am from Austria. I studied physics at the Vienna University of Technology. Currently I am doing my PhD (CERN Austrian Doctoral Student Programme) inscribed at the University of Innsbruck. However, I spend all my time at CERN, specifically at ISOLDE in the VITO group. I started my PhD about one year ago and the main focus so far was developing new detectors and other modifications that are needed for our upcoming beamtime -the measurement of the magnetic moment of 11Be with ppm accuracy. This measurement combined with the hyperfine structure constant will provide valuable insights into the halo nucleus nature of 11Be.

Daniel Paulitsch

PhD student
CERN, ISOLDE, University of Innsbruck
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Half my salary goes to my car's repairs.

Stefanos Pelonis

PhD student
Department of Physics and Astronomy, KU Leuven
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My name is Wiktor. My second name Witold is after the Grand Duke of Lithuania Vytautas the Great. I am working as a researcher at GSI Darmstadt in the LISA team. In my free time I mainly do sports and read manga. My favorite football team is Legia Warsaw.

Wiktor Poklepa

PhD student
GSI Helmholtzzentrum für Schwerionenforschung
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I come from Australia. I am undertaking a PhD in Nuclear Spectroscopy at GSI Darmstadt as an excuse to travel and explore Europe. My finest achievement is writing a GOSIA input file. My true passion is the theatre.

Martha Reece

PhD student
GSI
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I studied Physics in Salamanca and now I'm doing the PhD at IFIC in Valencia, Spain. I'm studying the beta-strength of some nuclei around mass number A~195 (the 3rd r-process peak) using Total Absorption Gamma-ray Spectroscopy (TAGS) technique to discern between theoretical models due to the large discrepancies that exist among them.

David Rodriguez Garcia

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Jouni Ruotsalainen

PhD student
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I am PhD student in my first year at the University of Bucharest, Faculty of Physics, and also at Politehnica Bucharest. My main fields of study are nuclear structure, NRF, GDR and Pygmy Resonance. My thesis is focused on the electric dipole response of nuclei with Z<50, currently 106Pd.

Teodora-Maria Sebe

PhD student
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I am a fresh member of the gamma spectroscopy group in the Heavy Ion Laboratory, University of Warsaw. I am part of the team setting up, running and analysing the data of the in-beam experiments employing the setup which consists of EAGLE gamma spectrometer, NEDA neutron detector array and DIAMANT charged particle detector. In my free time, I enjoy spending time with friends, playing volleyball and roller skating.

Paulina Sekrecka

PhD student
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I began my PhD in February 2024 at at the institute for nuclear and radiation physics (IKS) at KU Leuven on In-source laser spectroscopy of radiolanthanides as part of the ERC NSHAPE project. In my spare time I enjoy bouldering and cooking.

Jack Shaw

PhD student
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My PhD project is devoted to the search for a rare nuclear decay mode - double alpha decay. Having graduated as a theorist, I focused on experimental data analysis. Outside of academia, I love travelling and exploring new places. I am a fan of classical music and play piano quite well.

Makar Simonov

PhD student
Justus Liebig University Giessen
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I am a PhD student at Justus Liebig University Gießen (JLU), Germany, working with the FRagment Separator (FRS) group at GSI Darmstadt, Germany. My research focuses on fragmentation cross-section measurements. The FRS group focuses on the production, separation and identification of exotic nuclei. and also on investigation of nuclear structure of exotic nuclei, and I am actively involved in the experiments. As a PhD student, I am deeply passionate about scientific research and am dedicated to advancing the field of exotic nuclei. I take pride in being a part of the FRS group at GSI and look forward to continuing my work in this area. In free time, I enjoy playing chess and cooking food.

Suraj Kumar Singh

PhD student
GSI Helmholtzzentrum für Schwerionenforschung
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I am a PhD student in Physics passionate about experimental nuclear physics and willing to pursue a research career. I am looking for educational experiences to gain knowledge and skills, while building an international network of colleagues.

Damiano Stramaccioni

PhD student
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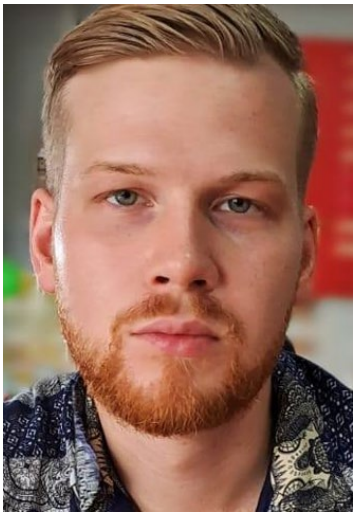

"I'm Eetu, 30 years old, and a third-year PhD researcher. I work in the nuclear spectroscopy research group at the University of Jyväskylä. I chose nuclear physics because, in my mind, anything larger than the nucleus is too big to be interesting. My dissertation work involves measuring the excited states of exotic nuclei using the RDDS (Recoil Distance Doppler Shift) method based on the Doppler effect. Most of my work time is spent analyzing data, untangling cables, searching for lost tools, and fiddling with micrometer-thick foils. For me, physics is not a part of life; rather, life is a part of physics. Working time is free time, and free time is working time. However, if physics overwhelms my mind, I try to clear it by writing, painting, listening to audiobooks, and walking around Jyväsjärvi until my legs can't carry me anymore."

Eetu Uusikylä

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Ville Virtanen

PhD student
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I am a first year PhD student at KU Leuven, who started her PhD journey four months ago. My research focus on measuring the absolute nuclear charge radii of Lutetium and Lanthanum isotopes using muonic x-ray spectroscopy. This will benchmark the laser spectroscopy measurements on proton-emitting lanthanides, providing insight into the extent of the wavefunction of the unbound proton. In addition to Physics, I love flowers, rainy days, spicy food, cooking and sharing laughter with my beloved people.

War War Myint Myat Phyo

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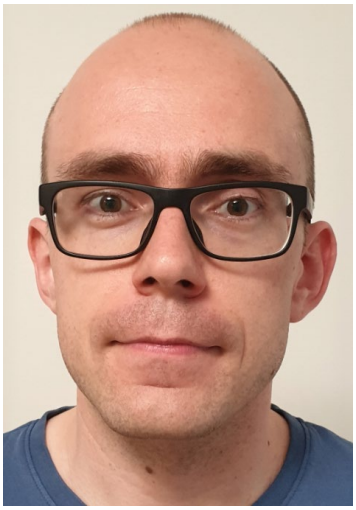

I have recently started my PhD in University of Jyväskylä. Academically, I am interested in nuclear astrophysics, and in my thesis I will simulate the effects of masses and reaction Q values in the outcome of the rapid neutron capture process. In my free time, I enjoy running and tinkering with my computer projects.

Miikka Winter

PhD student
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I am Georgina Xifra Goya, a 25-year-old first-year PhD student at the University of Santiago de Compostela (USC). Originally from Caldes de Malavella, Girona, I completed my bachelor's degree at the University of Barcelona (UB) and my master's in the Interuniversity Master's Program in Nuclear Physics, coordinated with several universities across Spain. I began my PhD journey with a stay at GSI, where I helped prepare for the experimental campaign that took place in February 2024. Currently, I am back in Darmstadt for an extended stay of over a year at TUDa/GSI. During this period, I am actively involved in the development of detectors and simulations for the HYDRA experiment scheduled for June 2025, and I will analyze the resulting data in my thesis. In my free time, I enjoy reading, cooking and playing volleyball and board games with friends.

Georgina Xifra Goya

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I am a science enthusiast and had an amazing opportunity to do my master's in Erasmus Mundus Nuclear Physics, which also allowed me to travel around Europe. My interest in this field has driven me to pursue a PhD in Laser Spectroscopy, studying the nuclear properties of lanthanides. Apart from my academic interests, I love to take photos, travel, and watch a lot of movies and anime. I also enjoy cooking for my friends.

Harshithbabu

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Lecturers

Helena May Albers



Staff Scientist

GSI Helmholtzzentrum für
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I am a staff scientist at the GSI Helmholtzzentrum für Schwerionenforschung in Darmstadt, Germany. My research interests include investigations into the structure of nuclei far from stability using exotic ion beams via spectroscopic techniques, the application of machine-learning methods to nuclear physics and the development of state-of-the-art detector technologies for fundamental research.

I started my career carrying out defence-related research at the UK Defence Science and Technology Laboratory before receiving a PhD in Experimental Nuclear Physics from the University of Edinburgh (UK) in 2013 for my work on the structure of neutron-deficient nuclei with mass A~60. From 2013-2015 I was a postdoc at the Argonne National Lab (ANL, USA) working with the GAMMASPHERE and GRETINA gamma-ray arrays as well as the Fragment Mass Analyzer. I came to GSI in 2015 as a postdoc in the Super-Heavy Element Chemistry Group to investigate reaction mechanisms for SHE formation, before taking my current position in the Nuclear Spectroscopy Department in 2019, where I work within the DESPEC (DEcay SPECtroscopy) collaboration in addition to my role as Technical Coordinator of the NUSTAR experiments at GSI/FAIR.

Erik Brücken



University lecturer at the University of Helsinki and senior scientist at the Helsinki Institute of Physics

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I am a University lecturer at the University of Helsinki for teaching instrumentation for high energy physics. In addition, I am currently leading the CMS Upgrade project at the Helsinki Institute of Physics.

I received my Ph.D. 2013 from the University of Helsinki working on Central Exclusive Production in proton anti-proton collision at the Tevatron, Fermilab.

Right after, I had two consecutive postdoc position working on the ALICE Time Projection Chamber upgrade and on the CMS inner tracker pixel detector upgrades. Currently I have a faculty position at the University of Helsinki.

My main interests are detectors for ionising radiation not only used in high energy physics but also in medical imaging and nuclear safety.

Andreas Ekström



Professor of Physics

Chalmers University of Technology

I am a professor of physics at Chalmers University of Technology. Before joining Chalmers, I held postdoctoral positions at the University of Tennessee in Knoxville, Michigan State University in East Lansing, and the University of Oslo in Norway. I earned my PhD from Lund University in 2010.

My research focuses on descriptions of the the strong force that binds protons and neutrons within atomic nuclei, with the overarching aim of realistically predicting the fundamental properties of strongly interacting matter. I mostly work on *ab initio* predictions of nuclear observables, computational methods for statistical inference, and mathematical optimization. A significant emphasis of my work is on the uncertainty quantification in these theoretical predictions.

Ann-Cecilie Larsen



Professor in Nuclear Physics

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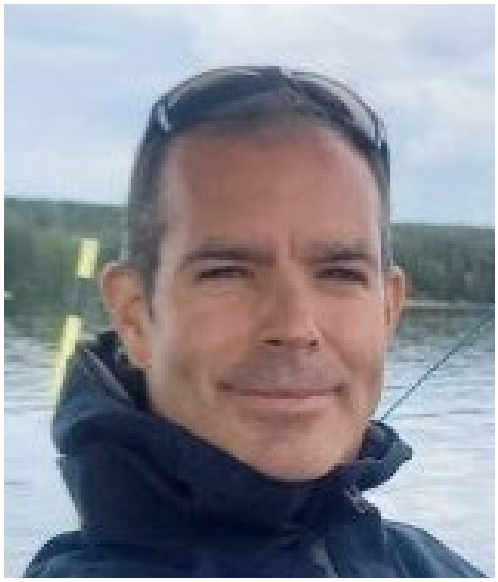
I am a professor in nuclear physics at the University of Oslo, Norway. My main research interests are nuclear level densities and gamma-decay strengths, especially resonance-like structures like the M1 scissors mode and the Pygmy Dipole Resonance, and nuclear astrophysics, in particular heavy-element nucleosynthesis.

I defended my PhD thesis in experimental nuclear physics in 2008 at the University of Oslo, Norway. After that I got a personal postdoc grant from the Research Council of Norway. During this postdoc I was a visiting scientist at University Libre de Bruxelles, Belgium, at UC Berkeley/Lawrence Berkeley National Lab/ Lawrence Livermore National Lab, and the National Superconducting Cyclotron Lab, Michigan State University. I obtained an ERC Starting Grant for the period 2015-2020. I got an associate professorship in 2020 and a full professorship in 2021 at the University of Oslo, Norway.

My hobbies include running, reading books, and watching science fiction movies and series (especially Star Wars & Dr. Who).

Iain Moore



University of Jyväskylä

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I am a professor working in the Department of Physics in Jyväskyä, Finland. My main research interests are nuclear structure studies of ground-state properties using optical and ion/atom trapping techniques. I have also spent many years working on the development of techniques for the selective production of radioactive ion beams.

Having completed my PhD in nuclear structure physics at the University of Manchester, UK, in 2001, I spent two years at Argonne National Laboratory, US, dabbling in laser trapping of cold atoms for ultra-trace isotope analysis. I then was enticed back to Europe, to Jyväskylä, to help build a new laser ion source facility. The rest is history. I have stayed here working up through the ranks and was awarded a full professorship in 2015.

I have many other interests: yoga, meditation, philosophy and take great pleasure in finding links between physics and these more internal disciplines.

Kari Peräjärvi



Professor of Practice

University of Jyväskylä

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Kari Peräjärvi serves as a principal advisor at STUK and as a professor of practice at the University of Jyväskylä. His work duties consist of operational activities including multiauthority cooperation, sustainability and development of national capabilities, international expert work, and research & development (university projects). Kari Peräjärvi joined STUK in 2006 and prior to that he has worked at Helsinki Institute of Physics, Lawrence Berkeley National Laboratory (California, USA), CERN/ISOLDE (Switzerland), and University of Jyväskylä.

Tomasz Malkiewicz



Executive Manager at NeIC

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Tomasz Małkiewicz is a Management Group member of CSC – IT Center for Science Ltd. of Espoo, Finland, and is also the executive manager of Nordic e-Infrastructure Collaboration (NeIC). Responsible for coordination NeIC's activities related to supercomputing, resource sharing and sensitive data, and technical projects in partnership with national e-Infrastructure providers.

As an experimentalist, he completed in 2009 his PhD at the University of Jyväskylä, working on ALICE T0 detector at CERN and the neutron measurements in the context of Radioactive Beam Facilities, in which neutron-induced fission is the reaction leading to neutronrich nuclei.

Tomasz Malkiewicz joined CSC in 2011 and prior to that he has worked as a CNRS postdoctoral researcher at Laboratory of Subatomic Physics & Cosmology (LPSC Grenoble, France), and University of Jyväskylä.