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J-PET



CENTER
FOR
THERANOSTICS



ZFM



6th Jagiellonian Symposium on Advances in Particle Physics and Medicine

Collegium Novodvorscianum, Kraków July 5-11 2026

06 July 2026 - Collegium Novodvorscianum (Anny Street 12)				
Time	Role	Speaker	Affiliation	Title
8:30 - 9:00	Registration and Coffee a Priori			
9:00 - 10:00	Opening Ceremony			
	Chair	Prof. Paweł Moskal, Prof. Ewa Stępień	Jagiellonian University, Poland	
	Speaker	Prof. Wojciech Macyk (To Be Confirmed)	Rector for Research of the Jagiellonian University	
	Speaker	Representative of ESMI	Welcome by European Society for Molecular Imaging (ESMI)	
	Speaker	Prof. John O. Prior	Lausanne University Hospital, Switzerland	World Health Organization (WHO) Resolution on Strengthening Medical Imaging Capacity
	Speaker	Prof. Paweł Moskal, Prof. Ewa Stępień	Jagiellonian University, Poland	Advancing Molecular Imaging with Jagiellonian PET
10:00 - 10:30	Opening Lecture by Prof. Habib Zaidi			
	Keynote	Prof. Habib Zaidi	Geneva University Hospital, Switzerland	Advanced Computational Models for Theranostic Digital Twins
10:30 - 11:00	Coffee break			
11:00 - 12:40	Multiplexed PET & Positronium Imaging			
	Keynote	Prof. Craig Levin	Stanford University, USA	Biological Multiplexing With PET: Interrogating Multiple Disease Biomarkers In A Single PET Scan
	Invited	Prof. Jinyi Qi	University of California, Davis, USA	From PALS To PLT: Randoms- Limited Precision & Activity Optimisation For Positronium Lifetime Tomography
	Invited	Dr. Narendra Radhod	University of Bern, Switzerland	Positronium Lifetime Imaging On The Biograph Vision Quadra: From Validation To First In-Vivo Clinical Results
	Invited	Prof. Hsin-Hsiung Huang	University of Central Florida, USA	Fast 3D Positronium Lifetime Estimation
	Speaker	Mr. Manish Das	Jagiellonian University, Poland	Evaluation of Novel $\beta^+\gamma$ Emitters For Positronium Lifetime Imaging With The Modular J-PET Scanner
12:40 - 12:50	Conference Photo			
12:50 - 14:00	Lunch			
14:00 - 15:10	Particle Therapy Monitoring			

	<i>Keynote</i>	Prof. Katia Parodi	Ludwig-Maximilians-Universität München, Germany	Advanced On-Board Imaging For Precision Small Animal Proton And Light Ion Radiation Research
	<i>Speaker</i>	Dr. Aafke Kraan	INFN Pisa, Italy	A Deep Learning Framework For Water-Equivalent Portal Dose Reconstruction And Treatment Error Detection Using E-PID Imaging For Phantoms And Patients
	<i>Speaker</i>	Mr. Giulio Lovatti	Ludwig-Maximilians-Universität München, Germany	In-Beam PET For First In Vivo Proton Range Assessment In Small-Animal Therapy With Online Image Reconstruction
	<i>Speaker</i>	Dr. Szymon Niedźwiecki	Jagiellonian University, Poland	Range Monitoring In Proton Therapy Using The J-PET Scanner: Extended Experimental Studies
15:10 - 16:45	PET Imaging Innovations (QE)			
	<i>Keynote</i>	Prof. Kenji Shimazoe	The University of Tokyo, Japan	Positronium Ratio Imaging, Quantum Entangled PET And Double Photon Emission Imaging With A Ring-Type Compton-PET Scanner
	<i>Invited</i>	Prof. Youngho Seo	University of California, San Francisco, USA	Imaging Technology Developments For Therapeutic Radiopharmaceuticals
	<i>Invited</i>	Prof. Mizuki Uenomachi	Institute of Science Tokyo, Japan	Nuclear Medicine Imaging With Angular Correlation Measurement For Local Microenvironment Sensing
	<i>Speaker</i>	Mr. Keyvan Tayefi Ardebili	Jagiellonian University, Poland	Feasibility Study of 3-Gamma Imaging With Total-Body J-PET
	<i>Speaker</i>	Ms. Macoto Fujimoto	The University of Tokyo, Japan	In Vivo Positronium Ratio Imaging Via Direct Localization of O-Ps Three-Photon Annihilation
16:45 - 17:15	<i>Coffee break</i>			
17:15 - 18:30	Radiopharmaceuticals for Theranostics			
	<i>Invited</i>	Prof. Renata Mikołajczak	NCBJ/POLATOM, Poland	From Radiopharmaceutical Development To Clinical Trials: Polatom’s Experience
	<i>Invited</i>	Dr. Martina Benešová-Schäfer	DKFZ, Germany	Subtype-Specific Insights In Breast Cancer Radiotheranostics
	<i>Speaker</i>	Prof. Agnieszka Kyzioł	Jagiellonian University, Poland	Sustainable Inorganic-Organic Hybrids As Drug Delivery Systems
	<i>Speaker</i>	Dr. Marzena Janiszewska	Lower Silesian Oncology, Pulmonology and Hematology Center, Poland	Implementation Of ETHOS Automated Adaptive Therapy In Patients Treated For Malignant Prostate Tumours
19:00	Public lecture in the historical hall of Collegium Novum			
	<i>Keynote</i>	Prof. Simon Cherry	University of California, Davis, USA & King’s College London, UK	Seeing is believing

07 July 2026 - Collegium Novodvorscianum				
Time	Role	Speaker	Affiliation	Title
8:30 - 9:00	<i>Coffee a Priori</i>			
9:00 - 10:15	Artificial Intelligence for Medicine			
	<i>Keynote</i>	Prof. Mahadevappa Mahesh	Johns Hopkins University School of Medicine, USA	Artificial Intelligence In Medicine
	<i>Invited</i>	Prof. Joanna Polańska	Silesian University of Technology, Poland	An NLP-Based AI System For Post-Radiation Patient Triage
	<i>Speaker</i>	Dr. Martyna Krzykawska-Serda	Jagiellonian University, Poland	AI-Enhanced In Vitro And In Vivo Imaging of Preclinical Cancer Models
	<i>Speaker</i>	Dr. Pavel Nuklin	Helmholtz-Zentrum Dresden-Rossendorf, Germany	AI-based delineation of lymphoma lesions in FDG PET
10:15 - 10:45	<i>Coffee break</i>			
10:45 - 12:35	Quantum Entanglement in Positron Emission Tomography			
	<i>Invited</i>	Prof. Mihael Makek	University of Zagreb, Croatia	Quantum Entanglement of Positron Annihilation Quanta: From

				Exploration of Fundamental Aspects To Application In PET Imaging
	<i>Invited</i>	Prof. Shiva Abbaszadeh	University of California, Santa Cruz, USA	Interaction Profiling of $\beta^+\gamma$ Isotopes With An Edge-On CZT-Based Imaging System: A Monte Carlo Simulation Study
	<i>Invited</i>	Dr. Peter Caradonna	The University of Tokyo, Tokyo, Japan	Operational Signatures of Bell Photons Beyond Polarization Filters
	<i>Invited</i>	Prof. Tomasz Sowiński	Institute of Physics, Polish Academy of Sciences, Poland	Towards Rigorous Entanglement Detection of Para-Positronium Annihilation Photons
	<i>Speaker</i>	Mr. Koki Nakamura	University of Tokyo, Japan	Preliminary In Vivo Mouse Imaging Study Using Quantum Entanglement-Based PET
	<i>Speaker</i>	Mr. Deepak Kumar	Jagiellonian University, Poland	Measuring the Polarization Correlation of Annihilation Photons in e^+e^- Decays using Modular J-PET
12:35 - 13:50	<i>Lunch</i>			
13:50 - 15:10	PET and Brain-PET Imaging Innovations			
	<i>Keynote</i>	Prof. Taiga Yamaya	National Institutes for Quantum Science and Technology (QST), Chiba, Japan	Beyond Scale: Detector Physics Perspectives On The Future of PET
	<i>Invited</i>	Prof. Sun Il Kwon	University of California Davis, USA	Progress In Developing A Small Two-Head Prototype Scanner For Reconstruction-Free Direct Positron Emission Imaging
	<i>Invited</i>	Prof. Sadek Nehmeh	Weill Cornell Medical College, USA	Ultra-High-Performance Brain PET (UHB-PET): Preliminary Results
	<i>Speaker</i>	Prof. Pawel Moskal	Jagiellonian University, Poland	First in-human Quantum Entanglement imaging
15:10 - 15:40	<i>Coffee break</i>			
15:40 - 16:35	Antimatter in Fundamental Physics			
	<i>Keynote</i>	Prof. Antonio Di Domenico	Sapienza University and INFN Rome, Italy	Testing Matter-Antimatter And Other Discrete Symmetries In Particle Physics
	<i>Speaker</i>	Dr. hab. Magdalena Skurzok	Jagiellonian University, Poland	Dalitz Plot Study For Ortho-Positronium Decays Into Three Photons With The J-PET Tomograph
	<i>Speaker</i>	Dr. Neha Chug	Jagiellonian University, Poland	Status of CPT Symmetry Test In Ortho-Positronium Decays With The Modular J-PET Detector
17:00	<i>Baroque Concert in St. Anne's Collegiate Church</i>			

08 July 2026 - Collegium Novodvorscianum				
Time	Role	Speaker	Affiliation	Title
8:30 - 9:00	<i>Coffee a Priori</i>			
9:00 - 10:00	Advances in Theranostics			
	<i>Keynote</i>	Prof. Elżbieta Pamuła	AGH University of Krakow, Poland	Inhalable Drug Delivery Systems Based On Lipids And Polymers To Treat Lung Diseases
	<i>Invited</i>	Prof. Mirosław Janowski	University of Maryland, USA	PET-Guided Endovascular Medicine
	<i>Speaker</i>	Dr. Michal Bišta	Fusiomica sp. z o.o., Poland	AI-Designed Mini-Proteins For Targeted Imaging And Radiotherapy
10:00 - 10:25	Keynote: Why Standardization Matters in Radiation Medicine			
	<i>Keynote</i>	Prof. Paweł Olko	IFJ PAN, Poland	The Perspective of the International Commission on Radiation Units and Measurements (ICRU)
10:25 - 11:00	Panel: Medical Experiments and Clinical Trials			
	<i>Chair</i>	Prof. Mahadevappa Mahesh	Johns Hopkins University School of Medicine, USA	Panelists: Prof. Beyer, Prof. Olko, Prof. Schulz, Prof. Janowski, Prof. Stępień
11:00 - 11:30	<i>Coffee break</i>			
11:30 - 12:30	PET Imaging Innovations			

	<i>Keynote</i>	Prof. Paul Lecoq	CERN, Switzerland	Meta-scintillators: A Door Open To The 10 Ps Time-of-Flight PET Challenge
	<i>Invited</i>	Dr. Ahmadreza Rezaei	KU Leuven, Belgium	Quantitative reconstructions of Activity and Attenuation from time-of-flight PET data
	<i>Speaker</i>	Mr. Satyam Tiwari	Jagiellonian University, Poland	Analytical Modelling of Blank Scan for Detector-Scattered Attenuation Correction (DSAC)
12:30 - 14:00	<i>Lunch</i>			
14:00 - 15:00	Antimatter in Material Physics & Medicine			
	<i>Keynote</i>	Prof. Filip Tuomisto	University of Helsinki, Finland	Defects In Semiconductors As Seen By Positrons
	<i>Invited</i>	Dr. Sodai Takyu	National Institutes for Quantum Science and Technology (QST), Chiba, Japan	Toward Positronium Imaging: Body Temperature Dependence And Gamma-Ray-Induced Positron Imaging
	<i>Speaker</i>	Dr. Torsten Staab	University Würzburg, Germany	The DRS4 Chip For PALS Measurements: The PSI Evaluation Board And The Integrated LifetimeSpec Tabletop Spectrometer
15:00 - 15:30	<i>Coffee Break</i>			
15:30 - 16:30	Antimatter in Fundamental & Material physics			
	<i>Keynote</i>	Prof. Jakub Cizek	Charles University, Czech Republic	Light-Induced Desorption of Positronium
	<i>Invited</i>	Prof. Taras Kavetsky	Drohobych Ivan Franko State Pedagogical University, Ukraine	Positron Annihilation In Bio nanotechnology: Design Principles For Polymer-Based Biosensors
	<i>Speaker</i>	Prof. Marian Cholewa	University of Rzeszow, Poland	Development And Applications of New Nanomaterials For High Speed, High Efficiency And High-Resolution Radiation Detectors
17:40	<i>Departure from Auditorium Maximum</i>			
18:30 - 21:30	<i>Conference Banquet at Manor House in Modlnica</i>			

09 July 2026 - Collegium Novodvorscianum				
Time	Role	Speaker	Affiliation	Title
8:30 - 9:00	<i>Coffee a Priori</i>			
9:00 - 10:15	PET Imaging Innovations & Total-body PET			
	<i>Keynote</i>	Prof. Qiyu Peng	Shenzhen Bay Laboratory, China	Next-Generation Affordable PET for Public Health: From Wearable Brain PET to Total-Body PET
	<i>Speaker</i>	Dr. Martin Rädler	Jagiellonian University, Poland	Distinct Spatial Resolution Advantages of Combining The TB-J-PET With A Brain PET Insert
	<i>Speaker</i>	Dr. Gašper Razdevšek	Jožef Stefan Institute, Slovenia	Flexible, Mobile And Modular PET Imaging
	<i>Speaker</i>	Ms. Kurumi Narita	National Institutes for Quantum Science and Technology (QST), Japan	Performance Evaluation of A Brain PET Prototype With Crosshair Light-Sharing Detectors
10:15 - 10:55	Panel: Democratizing PET Worldwide			
	<i>Chair</i>	Prof. Thomas Beyer	Medical University of Vienna, Austria	Panellists: Prof. Paul Lecoq, Prof. Paweł Moskal
10:55 - 11:25	<i>Coffee break</i>			
11:25 - 12:35	Progress in Cell Therapy & Brain Imaging			
	<i>Keynote</i>	Prof. Maciej Kurpisz	Institute of Human Genetics Polish Academy of Sciences, Poland	Stem Cell Imaging For Cardiovascular Cellular Therapies
	<i>Keynote</i>	Dr. Miwako Takahashi	National Institutes for Quantum Science and Technology (QST), Japan	Brain Imaging of Chronic Pain: Insights from Nuclear Medicine
	<i>Speaker</i>	Dr. Bartosz Leszczyński	Jagiellonian University, Poland	From Syngeneic To Human Melanoma Models: Longitudinal Micro-CT Tracking of Metastatic Progression In Mice

12:35 - 14:00	Lunch			
14:00 - 15:30	PET & Positronium Imaging Innovations			
	Invited	Prof. Chien-Min Kao	University of Chicago, USA	A Fast Positron Lifetime Tomography Method And Initial Phantom And Animal Results
	Invited	Dr. Joerg Peter	DKFZ, Germany	MC Simulation Studies Of O-Ps Imaging Of Single-Cell Tumor Growth Models In Anthropomorphic Phantoms
	Invited	Dr. Pete Jones	iThemba LABS, South Africa	Accelerator Based PET Innovations: Position Sensitive Imaging And ⁴⁴ Ti/ ⁴⁴ Sc Generator Development
	Speaker	Mr. Ermias Beyene	Jagiellonian University, Poland	NEMA Phantom Characteristics of Simultaneous Double Isotope Imaging With J-PET Using ⁵⁵ Co + ¹⁸ F And ⁵² Mn + ¹⁸ F Isotopes
	Speaker	Dr. Anand Pandey	Jagiellonian University, Poland	Positronium Lifetime Imaging Through Iterative Reconstruction Methods Utilizing J-PET And Biograph Vision Quadra
15:30 - 15:40	Conference Photo			
15:40 - 17:30	Poster Session & Coffee			

10 July 2026 - Collegium Novodvorscianum				
Time	Role	Speaker	Affiliation	Title
8:30 - 9:00	Coffee a Priori			
9:00 - 10:40	Exotic Atoms & Nuclei, Nuclear Physics			
	Keynote	Prof. Takatsugu Ishikawa	RCNP, Japan / Osaka University, Japan	Studies of The Phi-Nucleon Interaction Using Final-State Interactions
	Invited	Dr. Raffaele Del Grande	INFN Laboratori Nazionali di Frascati, Italy	Hyperonic Interaction Studies At The LHC To Understand Neutron Stars
	Invited	Prof. Ihor Kadenko	Taras Shevchenko National University of Kyiv, Ukraine	Exotic Case: Possible Observation Of A Bound Diproton & It’s Decay In An Unbound Deuteron
	Speaker	Mr. Lars Eggimann	University of Bern, Switzerland	From Medical Isotope Research To Fundamental Nuclear Physics: Sub-Threshold 99mTc Production Suggests Possible Bound Dineutron State
	Speaker	Dr. Alessio Porcelli	Jagiellonian University, Poland	μPPET Detector System
10:40 - 11:10	Coffee break			
11:10 - 12:30	Antimatter in Fundamental & Material Physics			
	Keynote	Prof. David Cassidy	University College London, UK	Advances In Positronium Microwave Spectroscopy
	Invited	Dr. Sushil Sharma	Jagiellonian University, Poland	Portable J-PET modules as a reconfigurable detection system for antimatter physics
	Invited	Dr. Fredrik Olof Andre Parnefjord Gustafsson	CERN, Switzerland	Probing The Nuclear Periphery Via The Cold Annihilation of Antiprotonic Atoms
	Speaker	Dr. Milena Piotrowska	Jan Kochanowski University, Poland	Beyond The Exponential Law: What Fluorescence Reveals About Quantum Decay
12:30 - 14:00	Lunch			
14:00 - 15:00	Exotic Atoms & Nuclei, Nuclear physics			
	Keynote	Prof. Yasuyuki Nagashima	Tokyo University of Science, Japan	Generation of Exotic Ions Through The Collision of Slow Positrons With Solid Surfaces And Their Applications In Atomic Physics
	Invited	Prof. Kenta Itahashi	The University of Osaka, Japan	Spectroscopy of Pionic Atoms & η' Mesic Nuclei

	<i>Speaker</i>	Dr. Sumit Kundu	Jagiellonian University, Poland	Validated Optical Photon Modeling of Long Plastic Scintillators For Precision Timing Applications
15:00 - 16:00	PET & Positronium Imaging Innovations			
	<i>Keynote</i>	Prof. Volkmar Schultz	RWTH Aachen University, Germany	How AI Is Reshaping Next-Generation PET Systems Design
	<i>Invited</i>	Prof. Krzysztof Starosta	Simon Fraser University, Canada	Positronium Imaging Through Energy Measurements In 3-Gamma Annihilation Events
	<i>Speaker</i>	Dr. Siddharth Parashari	IFIC-UV, Spain	Integration of Compton Camera With PET: A Compton-PET System Towards Multi-Energy Radionuclide Imaging
16:00 - 16:30	Closing Lecture			
	<i>Speaker</i>	Prof. Stefan Ulmer	Heinrich Heine University Düsseldorf, Germany	First Transportation of Antimatter
16:30 - 17:00	<i>Coffee break</i>			
17:00 - 17:30	<i>Award Presentation & Closing Ceremony</i>			

Poster Presentations at JS2026

CHAIRS: DR. SUSHIL SHARMA & DR. MAGDALENA SKALSKA

JAGIELLONIAN UNIVERSITY, POLAND

When: Thursday, July 9, from 15:30 to 17:30

Where: Cloisters of the Jagiellonian University Collegium Medicum, 12 św. Anny Street, Kraków

Note: The list below is organized in alphabetical order by the presenters' first names. Posters should be prepared in A0 format (841 × 1189 mm), portrait orientation.

1. **Aafke Christine Kraan, INFN Pisa, Italy**
Performance of a Scintillator Detector for Particle Beam Fragmentation Measurements in Charged Particle Therapy
2. **Aleksander Khreptak, Jagiellonian University, Poland**
The 44-Ti/44-Sc Generator: Current Status, Challenges, and Prospects
3. **Alhassan Aliyu Saad, Jagiellonian University, Poland**
Feasibility of J-PET for In-vivo Range Monitoring in Upright Hadron Therapy: Applications to Proton Beams
4. **Ana Marija Kožuljević, Institute for Medical Research and Occupational Health, Croatia**
Quantum Ghost Imaging with Annihilation Photons – A Monte Carlo Study
5. **Atharva Dalvi, Jagiellonian University, Poland**
Feasibility of Measuring Polarization Correlations of Annihilation Photons from Positronium Decays with Multilayer Modular J-PET
6. **Atrayee Basu, Jagiellonian University, Poland**
Towards the Reconstruction of Air Showers with the J-PET System
7. **Azam Zabihi, AstroCeNT, Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences, Warsaw, Poland**
3d π PET: A Novel Xenon-doped Liquid Argon-based Total-body PET Concept with Ultra-fast Timing and Low-dose Capability
8. **Bartosz Płóciennik, Jagiellonian University, Poland**
Oxygen Microbubbles for Ultrasound-triggered Tumor Oxygenation: From Therapeutic Potential to Next-generation Nanobubble Design
9. **Bhavnes, Jagiellonian University, Poland**
A Geant4-based Simulation Framework for Positronium Beam Detection in Atomic-interferometry Experiments
10. **Bożena Zgardzińska, Institute of Physics, Maria Curie-Skłodowska University (UMCS), Poland**
Positronium Diagnostic Maps
11. **Dhritman Dhar, DKFZ, Germany**
Monte Carlo Simulation of Positronium Lifetime Imaging with Material-dependent Pick-off Annihilation and Oxygen Quenching
12. **Ermias Yitayew Beyene, Jagiellonian University, Poland**
Simulation Study of NEMA Characteristics of Double Isotope Imaging with J-PET
13. **Everjoy Mones, Jagiellonian University, Poland**
Development of 3D-printed Abdominal Phantom for Quality Assurance Applications
14. **Helena Lo, Simon Fraser University, Canada**
Positronium Imaging with the 8 π Gamma-ray Spectrometer
15. **Ihor Kadenko, Taras Shevchenko National University of Kyiv, Ukraine**
Concept of Using Secondary Neutrons to Produce ^{99}Mo in a Composite Target
16. **Ivica Frišćić, Department of Physics, Faculty of Science, University of Zagreb, Croatia**
Study of Azimuthal Correlations of Compton-scattered Gammas from Ortho-positronium
17. **Jakub Gauza, Voxel S.A. and University of Warsaw, Poland**
Copper-64 Chloride as a Precursor for Modern Radiopharmaceuticals - Characterization of ^{64}Cu -DOTATOC in NET Diagnosis
18. **Justyna Mędrala-Sowa, Jagiellonian University, Poland**
Study of Ortho-positronium Lifetime with the Modular J-PET System
19. **Kamila Kasperska, Jagiellonian University, Poland**
Studies of Attenuation Effects in Two- and Three-photon Positronium Decays in Phantom Models
20. **Karol Kubat, Jagiellonian University, Poland**
Temperature Dependence of Ortho-positronium Lifetime in Liquid Water and Olive Oil in PALS
21. **Katsiaryna Yankova, Maria Curie-Skłodowska University (UMCS), Poland**
From Spreadsheets to a Unified Ecosystem: A Journey of Developing a Multimodal Database for UMCS
22. **Kavya Valsan Eliyan, Jagiellonian University, Poland**
Signal Efficiency Mapping Studies for CP Symmetry Test Using the J-PET Detector
23. **Keshab Kumar Karna, Jagiellonian University, Poland**
Multimodal 3D Ultrasound of Pancreatic Tumour Progression and Survival

24. **Krzysztof Calik, Warsaw University of Technology, Poland**
Controlling the Positron System of the AEGIS Experiment Using Sinara–ARTIQ Hardware–software Infrastructure and Circus–Talos Framework for Autonomous Operation
25. **Lars Maczey, University of Siegen, Germany**
Development of a Cherenkov-based Compton Camera for High-efficiency Gamma Imaging in the MeV Regime
26. **Leila K. Janowska, Ti-com, Inc., Baltimore, USA**
Clinically Relevant Porcine Endovascular Stroke Model for testing Therapeutic Agents and Medical Devices
27. **Łukasz Kapłan, Jagiellonian University, Poland**
Optical Properties and Time Resolution of Plastic Scintillators for the Total-body J-PET Scanner
28. **Manish Das, Jagiellonian University, Poland**
Development of Image Correction Techniques for the J-PET Scanner
29. **Marek Gorgol, Institute of Physics, Maria Curie-Skłodowska University (UMCS), Poland**
Experimental and Methodical Irregularities in the Studying of Biological Samples Using Positron Annihilation Lifetime Spectroscopy
30. **Martyna Łopuszyńska, Maria Curie-Skłodowska University (UMCS), Poland**
Annihilation of e^+ and Ps in Blood - Linked to Blood Cancer Markers
31. **Michalina Kaźmierczak, Jagiellonian University, Poland**
Comparative TOF-SIMS Metabolic Profiling of Diabetic Rat Liver Tissue Under Metformin and Flaxseed Mucilage Treatment
32. **Nadiia Sakhno, Taras Shevchenko National University of Kyiv, Ukraine**
Cross-section of Bound Dineutrons Formation with Simulation of Experiments for Direct Dineutron Decay Observation
33. **Narendra Rathod, University of Bern, Switzerland**
Prototype Development of an On-chip PET System with Dual-sided Crystal Readout for Enhanced Gamma-ray Interaction Point Localization
34. **Negin Sadeghinejad, Jagiellonian University, Poland**
 μ P-PET Event Classes
35. **Neha Chug, Jagiellonian University, Poland**
Methodology for Determining Absolute Values of the $3\gamma/2\gamma$ Annihilation Rate Ratio in Positronium Decays Using the Modular J-PET Detector
36. **Oksana Melikhova, Charles University, Faculty of Mathematics and Physics, Czech Republic**
Temperature Dependence of Free Volume Size Distribution in Nafion Membrane Characterized Using Positronium
37. **Petar Žugec, Department of Physics, Faculty of Science, University of Zagreb, Croatia**
Klein-Nishina Meets Pryce-Ward: The Best from Both Worlds for the Semiclassical Simulations of the Annihilation Photon Correlations
38. **Piyush Pandey, Jagiellonian University, Poland**
Development of a Geant4 Simulation Framework for Antimatter Annihilation Vertex Reconstruction
39. **Pooja Tanty, Jagiellonian University, Poland**
Exploring Charge Conjugation Invariance in Positronium with J-PET Detector
40. **Przemysław Czapla, Institute of Physics, Polish Academy of Sciences, Poland**
Towards Rigorous Entanglement Detection of Para-positronium Annihilation Photons
41. **Sharareh Jalali, Jagiellonian University, Poland**
Evaluation of the Performance of a Plastic Scintillator Based Brain PET Insert
42. **Simbarashe Moyo, Jagiellonian University, Poland**
Ex-vivo Positronium Lifetime Imaging of Human Thrombi: Validation with Positron Annihilation Lifetime Spectroscopy
43. **Taiyo Ishikawa, National Institutes for Quantum Science and Technology, Japan**
Refractive Index Dependence on Detection Efficiency and CTR in Simulated Cherenkov-based TOF-PET Detectors
44. **Tevfik Kaplanoğlu, Jagiellonian University, Poland**
A Two-axis Gantry System for a Total-body J-PET/CT Scanner
45. **Wiktor Mryka, Jagiellonian University, Poland**
Proton Beam Range Monitoring and Positronium Studies in Proton Radiotherapy with J-PET System