The 1st Total-Body J-PET general meeting 2024

Time	Agenda	Speaker
		Saturday, 05 October 2024
18:00 - 21:00	**Integration Meeting**	**Indus Tandoor** **Świętego Tomasza 18**
		Sunday, 06 October 2024
10:00 - 11:10	**Opening and short statements from Collaborating Institutions**	
	Welcome talk	**Prof. Zbigniew Postawa** The Dean of the Faculty of Physics
	Support for the J-PET	**Dr. Gabriela Konopka-Cupiał** Director of The Center for Technology Transfer, Jagiellonian University
	Collaboration of Cracow University Hospital	**Prof. Anna Sowa - Staszczak** Head of Nuclear Medicine Unit, Cracow University Hospital
	Collaboration of LNF with J-PET	**Prof. Catalina Curceanu** National Laboratory of Frascati, Italy
	Collaboration of AGH with J-PET	**Prof. Tomasz Szumlak** AGH University of Science and Technology
	Collaboration of CCB with J-PET	**Prof. Renata Kopeć** Director of Cyclotron Center Bronowice
	Collaboration of PK with J-PET	**Prof. Edward Lisowski** Cracow University of Technology
	Collaboration of Institute of Nuclear Chemistry and Technology with J-PET	**Dr. Rafał Walczak/** **Prof. Agnieszka Majkowska** Institute of Nuclear Chemistry and Technology, Warsaw
	Collaboration of UMCS with J-PET	**Prof. Bożena Jasińska /** **Dr. Marek Gorgol** Maria Curie-Sklodowska University, Lublin
	Collaboration of HIL UW with J-PET	**Dr. Jarosław Choiński /** **Dr. hab. Anna Stolarz** Heavy Ion Laboratory, University of Warsaw
	Center for Theranostics a home for total-body J-PET	**Prof. Ewa Stępień** Jagiellonian University
	Stairway to the Total-body J-PET	**Prof. Paweł Moskal** Jagiellonian University
11:10 - 11:40	**Coffee break and conference photo**	
11:40 - 12:50	**Status of the TB-J-PET Hardware preparation**	
11:40	Scintillators	**Dr. Łukasz Kapłon** Jagiellonian University
11:47	SiPMs etc..	**Dr. Szymon Niedźwiecki** Jagiellonian University
11:54	Triggerless Data Acquisition and Front End Electronic	**Dr. Grzegorz Korcyl** Jagiellonian University
12:09	Design and construction of housing and cooling system	**Prof. Edward Lisowski /** **Prof. Grzegorz Filo** Cracow University of Technology
12:19	Design and construction of the cross-stage moving system for PET and CT	**mgr Tevfik Kaplanoglu** Jagiellonian University
12:26	Design and construction of positronium annihilation chambers	**Dr. Marek Gorgol** Maria Curie-Sklodowska University, Lublin
12:33	Establishing Laboratory for the J-PET modules testing	**Dr. Sushil Sharma** Jagiellonian University
12:40	Establishing facility for BIO Positron Annihilation Lifetime Spectroscopy	**Dr. Karol Kubat** Jagiellonian University
12:50 - 13:00	**Coffee break**	

13:00 - 13:50	**Status of the TB-J-PET Software preparation**		
13:00	Graphical User Interface and multi-threaded programming framework	**Dr. Bartłomiej Rachwał** AGH University of Science and Technology
13:10	Status of the TB-J-PET Software preparation	**Krzysztof Kacprzak** Jagiellonian University
13:20	Data archiving systems and computer center	**Dr. Eryk Czerwiński** Jagiellonian University
13:30	Status of PET and Positronium image reconstruction	**mgr Manish Das** Jagiellonian University
13:40	Status of the brain imager design	**Dr. Martin Reader** Jagiellonian University
13:50 - 14:50	**Lunch break**	
14:50 - 16:30	**Funded research project and project under preparation**	
14:50	**->** Center for Theranostics Flagship Project -> MNiSW investment project: "Tomograf J-PET/CT do jednoczesnego obrazowania całego ciała" -> MNiSW SPUB: "Cyfrowy Modularny Pozytonowy Tomograf Emisyjny" -> MAESTRO: "Total-body Jagiellonian Positron Emission Tomography - development of image-driven biomarkers" -> OPUS-18: "Precision symmetry tests between matter and anti-matter via measurer decays of positronium atoms using the modular J-PET tomograph" -> OPUS-22: "Development of three-photon emitting radiotracers for positronium imag -> ERC: "Can tissue oxidation be sensed by positronium?" **(Submitted)**	**Prof. Paweł Moskal** Jagiellonian University
15:00	-> OPUS24-LAP: "High-throughput PET imaging by decoding multi-photon signals on long axial field-of-view PET using physics-guided artificial intelligence" -> OPUS-23: "Extracellular vesicles modifications for future drug delivery systems" -> EU Maria-Curie action: UPLIFT "UPright radiotherapy: Learning, Innovation, Fellowship and Train -> SPUB: "Infrastruktura do badań przedklinicznych, klinicznych i nowych terapii - Centrum Teranostyki" **(Submitted)**	**Prof. Ewa Stępień** Jagiellonian University
15:10	OPUS-22: "Development of three-photon emitting radiotracers for positronium imaging	**Dr. Rafał Walczak** Jagiellonian University
15:18	SONATA-BIS: "Doors to the Mirror World - searching for the Dark Matter candidates with the novel J-PET detector"	**Dr. Elena Perez Del Rio** Jagiellonian University
15:26	SONATA-BIS: "Inertial sensing on Positronium atoms: towards measuring the gravitational effects on matter-antimatter system"	**Dr . Sushil Sharma** Jagiellonian University
15:34	SONATA-BIS: "μPPET: studying the Cosmic Rays Muon Puzzle by probing muons with J-PE	**Dr. Alessio Porcelli** Jagiellonian University
15:42	MINIATRA: "Właściwości optyczne i rozdzielczość czasu przelotu polimerowych scyntylatorów z dużą techniczną długością tłumienia dla skanerów pozytonowej tomografii emisyjnej na całe ciało"	**Dr. Łukasz Kapłon** Jagiellonian University
15:48	MINIATRA: "Opracowanie radioizotopowo znakowanych pęcherzyków zewnątrzkomórkov do teranostycznej terapii nowotworowej"	**Dr. Magdalena Skalska** Jagiellonian University
15:54	PRELUDIUM: "Influence of the orto-para conversion process on the probability of creation of different positronium states"	**Dr. Kamil Dulski** Jagiellonian University
15:59	PRELUDIUM: "First measurement of CP and CPT violation sensitive angular correlation operator in ortho-positronium decays"	**mgr Neha Chug** Jagiellonian University
16:06	SONATA-BIS: "Studies on the three-gamma decays of the positronium atom using the modular J-PET tomograph from fundamental research to medical imaging" **(Submitted)**	**Dr. Magdalena Skurzok** Jagiellonian University
16:13	PRELUDIUM: "Probing the Quantum Nature of Positron Annihilation: A Polarization Correlation Study aided by Machine Learning" **(Submitted)**	**mgr Deepak Kumar** Jagiellonian University
16:18	in preparation SONATA ".... "	**Dr. Martyna Durak-Kozica** Jagiellonian University

16:25	Contribution to the OPUS-LAP project	**Dr. Kamil Wawrowicz** Jagiellonian University
16:30 -- 17:0(	**Coffee break**	
17:00 - 18:20	**PhD projects under realisation**	
17:00	Machine-learning for cell analysis	**mgr Kriti Awasthi** Jagiellonian University
17:05	Simultaneous multi-tracer imaging with the J-PET scanner	**mgr Ermias Yitayew Beyene** Jagiellonian University
17:10	Study of the CPT symmetry with the J-PET scanner	**mgr Neha Chug** Jagiellonian University
17:15	Developing positronium imaging for the in-vivo liver cancer diagnosis	**mgr Manish Das** Jagiellonian University
17:20	Developing cost-effective computed tomography and cross-stage platform for TB-JPET/CT	**mgr Tevfik Kaplanoglu** Jagiellonian University
17:25	Study of Quantum Entanglement with the J-PET scanner	**mgr Deepak Kumar** Jagiellonian University
17:30	Precision studies of the orthopositronium lifetime with the J-PET detector	**mgr inż. Justyna Mędrala-Sowa** Jagiellonian University
17:35	eveloping positronium imaging for the proton therapy enhancement	**mgr Wiktor Mryka** Jagiellonian University
17:40	Studies of antimatter gravitation using J-PET modules and AEgIS at CERN	**mgr Piyush Pandey** Jagiellonian University
17:45	Developing PET and Positronium imaging for total-body PET systems	**mgr Szymon Parzych** Jagiellonian University
17:50	Blood clots structural characteristics with positronium	**mgr inż. Simbarashe Moyo** Jagiellonian University
17:55	Study of multi-photon decays of positronium with J-PET detector	**mgr Pooja Tanty** Jagiellonian University
18:00	Estimating NEMA characteristics for the total-body J-PET scanner	**mgr Keyvan Tayefi Ardebili** Jagiellonian University
18:05	Precision study of the CP symmetry using J-PET scanner	**mgr Kavya Valsan Eliyan** Jagiellonian University
18:10	TB-J-PET CT-less image reconstruction	**mgr Satyam Tiwari** Jagiellonian University
18:30 -- 20:30	**Dinner**	**Trattoria Rialto,** **Raciborska 17, 30-384 Kraków**