PSMR-TBP 2022 9th Conference on PET/MR and SPECT/MR & Total-body PET workshop

Monday, 30 May 2022

New technologies for PET/MR and TB-PET: Part 1 (11:20 - 12:40)

-Conveners: Antonio J. Gonzalez

time	[id] title	presenter
11:20	[8] A highly multiplexed detector readout scheme for Total-Body PET	SANCHEZ, David
11:40	[83] Performance of monolithic BGO-based detector implementing a Neural-Network event decoding algorithm for TB-PET applications	CARRA, Pietro
12:00	[50] Deep learning for time estimation in monolithic PET detectors using digitized readouts	MAEBE, Jens
12:20	[44] Reducing Memory Requirements for Gradient Tree Boosting Models in FPGA Implementations for Position Estimation in PET Detectors	KRUEGER, Karl

New technologies for PET/MR and TB-PET: Part 2 (18:00 - 19:00)

-Conveners: Giancarlo Sportelli

time	[id] title	presenter
18:00	[9] PETAT1, a Time-Sorting Readout ASIC for PET	Prof. FISCHER, Peter
18:20	[45] Sub-100 ps Coincidente Time Resolution for ToF-PET detectors using FastIC	MARISCAL-CASTILLA, Antonio
18:40	[60] Blumino: a fully integrated analog SiPM with on-chip time conversion	Mrs MUNTEAN, Andrada

Tuesday, 31 May 2022

New technologies for PET/MR and TB-PET: Part 3 (08:30 - 10:30)

-Conveners: Paul Lecoq

time	[id] title	presenter
08:30	[24] RF shielding on scintillator level for highly-integrated PET/MRI systems	YIN, Laiyin
08:50	[19] Geometrical considerations on hexagonal SiPM	Dr CHIL, Rigoberto
09:10	[23] Development and validation of a measurement-driven inter crystal scatter recovery algorithm with in-system calibration	Ms HERWEG, Katrin
09:30	[21] Realistic Total-Body J-PET geometry optimization - Monte Carlo study	BARAN, Jakub
09:50	[27] Investigation of the DOI capable configuration in dealing with the parallax error in the Total-Body J-PET tomograph	DADGAR, Meysam
10:10	[12] Hyperion III – MRI-Compatible PET Detector Platform	Dr WEISSLER, Bjoern

New technologies for PET/MR and TB-PET: Part 4 (11:00 - 12:20)

-Conveners: Paweł Moskal

time	[id] title	presenter
11:00	[34] Perspective for a Total Body PET with ≤100ps timing resolution	LECOQ, Paul
11:20	[10] Performance evaluation of semi-monolithic detectors for TB-PET systems	FREIRE, Marta
11:40	[14] Exploiting Cherenkov radiation and cross-luminescence emission with BGO/BaF2 metacrystals	LATELLA, Riccardo
12:00	[59] Light Extraction Enhancement in Inorganic Scintillators for Total-body PET Scanners using Photonic Crystals	GRAMUGLIA, Francesco