

Fast Timing in Medical Imaging

Sunday, 5 June 2022

Technologies for ≤ 100 ps TOFPET resolution: AI, Image reconstruction (15:00 - 17:00)

-Conveners: Johan Nuyts

time	[id] title	presenter
15:00	[51] Determining the equivalent Gaussian TOF-resolution of PET systems with multiple and non-Gaussian TOF-kernels	NUYTS, Johan
15:15	[29] The influence of the number of Cerenkov photons on the timing resolution of a BGO PET detector.	NUYTS, Johan
15:30	[50] Improving Spatial Resolution with Ultrafast TOF in PET	Prof. LECOMTE, Roger
15:45	[43] Cross-sectional image generation and post processing in reconstruction-free direct positron emission imaging (dPEI)	KWON, Sun Il
16:00	[25] The potential of AI-Deep learning for improving spatial and TOF resolution, acquisition time and scanner cost in PET	VANDENBERGHE, Stefaan
16:15	[28] Pushing the limits of high resolution detectors based on monolithic scintillators for fast timing in PET with an AI-boosted 4D positioning algorithm	BELCARI, Nicola
16:30	[56] Convolutional networks for gamma time estimation from raw detector waveforms in monolithic PET detectors	MAEBE, Jens
16:45	[55] Fast prototyping of medical imaging detectors using AI methods	PAN, Indranil