# POSTERS

Posters are on display in the **Thagaste hallway** during the whole conference. The posters are ordered by category and number. The poster presentations will be on **Monday from 11u30 – 12u30**

## NOVEL APPLICATIONS

| Number | Authors | Title |
|---|---|---|
| **TB017** | Ewelina Kubicz, Kamil Dulski, Grzegorz Grudzień | J-PET scanner combined with Positron Annihilation Lifetime Spectroscopy as a tool for morphometric imaging |
| **TB027** | Eric Berg, Elizabeth Li, Xuezhu Zhang, Simon Williams, Alice F. Tarantal, Ramsey D Badawi and Simon R Cherry | Total-body dynamic imaging and late time-point antibody imaging in rhesus monkeys using the mini-EXPLORER scanner |
| **TB031** | Thibaut Merlin, Dimitris Visvikis | Hybrid 18F-FDG kinetic model for bias propagation reduction in Total-Body PET direct parametric image reconstruction |
| **TB034** | Koosha Paydary, Sahra Emamzadehfard, Saeid Gholami, Sara Pourhassan, Thomas J Werner, Poul Fleming Høilund-Carlsen, Abass Alavi | Potential role of whole body PET imaging to detect and characterize cardiovascular disorders |

## DETECTOR HARDWARE

| Number | Authors | Title |
|---|---|---|
| **TB002** | Grzegorz Korcyl | Single-chip tomographic data processing platform |
| **TB006** | Sushil K. Sharma, Sz. Niedźwiecki | Time Over Thresholds as a measure of energy loss by incident gamma in the J-PET scanner |
| **TB009** | Ricardo Bugalho, Luís Ferramacho, Carlos Leong, Tahereh Nijnejad, José C Silva, Rui Silva, Miguel Silveira, Stefaan Tavernie, joão Varela | TOFPET 2 based whole body PET |
| **TB012** | Florian Müller, David Schug, Patrick Hallen, Volkmar Schulz | Time-efficient calibration enabled by a Gradient-Tree-Boosting-based positioning method for monolithic scintillators suitable for total-body PET |

## DATA PROCESSING + SIMULATIONS

| Number | Authors | Title |
|---|---|---|
| **TB003** | Michel Defrise, Ahmadreza Rezaei, Johan Nuyts | Timing calibration in TOF-PET using data consistency: the 3D case |
| **TB007** | R.Y. Shopa | Image reconstruction of the simulated NEMA IEC phantom in J-PET scanner using multivariate kernel density estimation |
| **TB013** | Edwin K Leung, Martin S Judenhofer, Simon R Cherry, Ramsey D Badawi | Initial performance assessment of a software-based coincidence processor for the EXPLORER total-body PET scanner |
| **TB019** | Kuangyu Shi, Lina Xu, Giles Tetteh, Andrei Gafita, Matthias Eiber, Andreas Buck, Bjoern H Menze, Axel Rominger | Lesion Detection for Total-Body PET Imaging by Means of Deep Learning |

| | | |
|---|---|---|
| **TB020** | Charlotte Thyssen, Mariele Stockhoff, Stefaan Vandenberghe | Comparison between total-body PET and conventional PET by means of Monte Carlo simulations in prostate cancer examinations |
| **TB035** | Meysam, Dadgar Ahad, Zeinali | A Gate Simulation study to compare small animal total body PET scan base on monolithic and pixelated detectors |
| **TB036** | Xuezhu Zhang, Ramsey D Badawi, Simon R Cherry, Jinyi Qi | Challenges and methodology of quantitative image reconstruction for the total-body PET |

## SYSTEMS

| Number | Authors | Title |
|---|---|---|
| **TB005** | P M M Correia, F M Ribeiro, J Menoita, A L M Silva, N O Romanyshyn, F Rolo, I F Castro, P M C C Encarnação, F Rodrigues, A C Santos, C Ramos, F Caramelo, N.C. Ferreira, D A Sá, N Matela, P Almeida, P M Sá and J F C A Veloso | Full body intelligent scanning preclinical PET: characterization and first animal tests of a small-scale system |
| **TB015** | David Perez-Benito, Rigoberto Chil, Jose Manuel Udías, Manuel Desco, Juan Jose Vaquero | Design and performance study of a quasi-spherical PET scanner |
| **TB016** | Stan Majewski | Flexible Geometry Iris_TOFPET Scanner |
| **TB029** | Minju Lee, Kilyoung Ko, Youngtaek Kim, JungYeol Yeom, Gyuseong Cho | Design of brain PET with DOI method for Alzheimer's disease |
| **TB033** | Paulo Caribé, Yves Dassele, Carlos Calderón Marín, Hugo Bertin, Michel Koole, Stefaan Vandenberghe | NEMA NU 2012 Performance Evaluation of Silicon-Photomultiplier–Based and conventional PMT-based Time-of-Flight systems |