# 3rd International Workshop on Machine Learning and Quantum Computing Applications in Medicine and Physics

## Wednesday 09 September 2026

**Medical imaging: Monte Carlo simulations in medical imaging** (09:00-10:30)

| time | [id] title | presenter |
|---|---|---|
| 09:00 | [62] AI meets physics - an overview of AI applications in the context of Monte Carlo particle transport simulations | Dr KRAH, Nils |
| 09:40 | [14] GGEMS - GPU Geant4-based Monte Carlo Simulations | BENOIT, Didier |
| 10:05 | [12] Up-scaling for measuring the spatial distribution of radiation dose for applications in the preparation of individual patient treatment plans | RACHWAŁ, Bartłomiej |

**Medical imaging: Novel reconstruction algorithms and techniques** (14:50-16:30)

| time | [id] title | presenter |
|---|---|---|
| 14:50 | [32] Advanced TOF MLEM reconstruction of a human patient scanned by the modular J-PET | SHOPA, Roman |
| 15:15 | [51] Improvement of time-of-flight resolution of PET scanner using additional prompt photon | RACZYŃSKI, Lech |
| 15:40 | [60] Towards total-body J-PET: overview of data correction techniques for image reconstruction | COUSSAT, Aurélien |
| 16:05 | [13] Assessment of Internal Radiation Dose: Understanding the Influence of Respiratory Motion | Dr ATI, Moncef |