Session Program

Sep 10 – 12, 2012

Topical Workshop: Tomography, data processing and image reconstruction for medicine and engineering

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HZDR
Bautzner Landstraße 400 01328 Dresden, Germany

Tue, September 11

9:00 AM

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Session | **Location:** HZDR, Bautzner Landstraße 400 01328 Dresden, Germany | **Convener:** U. Pietrzyk

9:00 – 9:45 AM **Radiation based tomographic methods in medicine**

Speaker
Wolfgang Enghardt

9:45 – 10:15 AM

Time resolved (4D) reconstruction of in-beam PET data for the dose monitoring of intra-fractionally moving target volumes in ion beam therapy

Speaker
K. Laube

10:15 – 10:35 AM

Observations of transport processes in dense material as challenge for PET imaging procedures and image reconstruction methods

Speaker
Dr Johannes Kulenkampff

10:35 – 11:00 AM **Coffee**

11:00 – 11:20 AM **Image Reconstruction for Compton Cameras**

Speaker
Mr Sebastian Schoene

11:20 – 11:40 AM

Ultra-Fast, High Resolution PET Image Reconstruction using the PET Reconstruction Toolbox (PRESTO)

Speaker
J. Scheins

11:40 AM – 12:00 PM **Iso(Hyper)Surface Extraction in three and four Dimensions**

Speaker
B. Schlei

12:00 PM