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Data analysis of tomography experiments at the Hereon beamlines at PETRA III

Tuesday 27 September 2022 16:45 (15 minutes)

The Helmholtz-Zentrum Hereon is operating several tomography end stations at the synchrotron radiation facility PETRA III at DESY in Hamburg, Germany. Here, we give an overview of the reconstruction, processing and analysis of tomography data and report on the latest development including machine learning for image enhancement, segmentation, and multimodal data analysis, a guided interactive and iterative framework for segmentation of user data, and digital volume correlation for 4D time-series analysis.

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Session Classification: Data Management and Analysis