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A new software protocol for high-throughput tomography using attenuation-contrast and phase-contrast

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The Helmholtz-Zentrum Geesthacht is operating beamlines using neutrons at the FRM2, Munich and using synchrotron radiation at the Deutsches Elektronen-Synchrotron DESY, Hamburg. At the storage rings DORIS III and PETRA III four different beamlines are equipped to perform attenuation-contrast and phase-contrast microtomography. For the efficient use of beamtime and to increase the sample throughput a new data format is defined within the Helmholtz Foundation. Especially in tomography using SR and neutrons the close interaction of sample information, the experimental control, together with the reconstruction software is required. Therefore, a new software protocol for SR and neutron tomography is suggested. The concept and the status of the implementation will be given.

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