NeXus file generation for CT reconstruction of Fast Tomography

Fast tomography of battery failure is performed using a specialized synchrotron-adapted setup. The incorporated rotation stage and the high-speed detector that enables fast CT, are not directly linked. To overcome this issue and enable CT reconstruction, the rotation angles are accessed using a fast Transcom recording of the motor positions. The angular positions are then synced with the projections and saved in a NeXus (.nx) file format, such that each projection is attributed with the correct rotation angle. The angles are recorded and saved in a .txt file, that in the first part of the code is read and cut to match the projections, each saved as .tiff files.