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Tomodata - a Python interface for PyHST2 at SOLEIL

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At SOLEIL's tomography beamlines, tomography acquisitions are performed using the SOLEIL FlyScan continuous scanning architecture. The resulting data are reconstructed using PyHST2. In both cases, a layer of Python code has been developed to guide the user through the process, aligning samples, setting parameters, correcting artefacts, and launching reconstructions. Batch or pipeline processing are possible.
We have also put a great deal of thought into the computing hardware used for data storage, transfer, and processing, and at the PSICHE beamline this is in the process of being upgraded to its second iteration.
This presentation will demonstrate the above tomography workflow, and will explain the new computing systems. Comments, questions, and suggestions for future developments are welcomed.

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