Using the FIB-SEM-Tomography Schema and Map for Zeiss Auriga

The acquisition data looks like this:

A white paper with green check mark and white text

Description automatically generated

The files with extension .ve-a3f and .bak contain information pertaining to the whole project in XML format. The .bak file can be selected as this is smaller and without the detailed log. The image datasets are contained in the folders called InLens and SESI. There could be more image folders, depending on the detectors used. The folders titled AutoTune and keyframes and the execution\_log.log are to be ignored.

The XML in the .bak file can be either converted to json and mapped with the schema for SEM-FIB Tomography or read directly as XML and mapped. In this case, the attributes of the XML elements are referred to in the map with an @ symbol. For example, the element ATLAS3D-Job has an attribute called “version”. It is referred to in the map as [ATLAS3D-Run-bak.ATLAS3D-Job.@version](mailto:ATLAS3D-Run-bak.ATLAS3D-Job.@version). Here, “ATLAS3D-Run-bak”, refers to the file name.

Additional parameters to be added:

"acquisition.genericMetadata.zCutSpacing.value": “µm”

The TIFF images in the folders InLens and SESI have metadata (contained as XML at tag 51023)