

Status of the Cryo X-ray Microscope in Aarhus

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The Institute for Storage Ring Facilities at the University of Aarhus operates an X-ray microscope in the soft X-ray region at a bending magnet source on the ASTRID storage ring. After an upgrading process the possibility of investigating cryogenically fixed samples mounted in a vacuum object chamber is now given at this microscope. In comparison to experiments taken at room temperature in an atmosphere of air and/or helium an enhanced stability against radiation damage is especially observable in biological samples. For mounting an object under cryogenic conditions in the microscope a modified Gatan cryogenic sample holder is used. In this poster the design of the object chamber will be outlined and first results of imaging experiments will be presented.