

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. In the course of an upgrading process an additional vacuum object chamber for investigating cryogenically fixed samples was implemented. For mounting an object under cryogenic conditions in the microscope a modified Gatan sample holder is used. A light microscope for prealigning the sample in the vacuum chamber is under construction at the moment. A crucial aspect for the operation of the X-ray microscope is the supply of optics. This is especially true for the condenser optics which are practically no longer available. In cooperation with other groups we are trying to establish a fabrication process for these large area optics. Some first test experiments will be presented.