

X-ray detectors at the MAX IV synchrotron

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Abstract

The MAX IV Synchrotron facility in Lund, Sweden, employs more than 30 X-ray detectors and cameras that are essential for the operation of its beamlines.

Abstract The most common drivers for the choice of a certain technology are the spatial and temporal resolution, and the energy range. Different detector typologies (imaging, energy sensitive...) and technologies (photon counting, charge integrating...) respond to different experimental requirements.

Abstract The facility purchases most of the detectors from commercial partners, but some of the most cutting edge solutions are obtained instead through scientific partnerships with other laboratories. In both cases we take care of the characterization and calibration of all detectors as well as the integration with the rest of the beamline and the IT infrastructure of the laboratory.

Abstract We will present an overview of the technologies employed, of the operational aspects and support systems for these detectors.

Track Applications