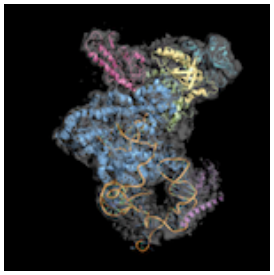

Contribution ID : **10** Type : **not specified**

Short Talk 1 - Serial Crystallography Opportunities at MAX IV

Monday, 19 November 2018 13:55 (20)

MAX IV is the first operational 4th generation storage ring, offering synchrotron radiation for many scientific communities. BioMAX, the first macromolecular crystallography (MX) beamline and one of the first beamlines in user operation, is designed to support all kinds of established crystallography methodologies. The experimental station is equipped with an MD3 micro-diffractometer, an Eiger 16M hybrid pixel detector and an ISARA sample changer.
The beamline runs at a high automation level and allows for complete data collections in seconds. We have recently started implementing serial crystallography at BioMAX. The first experiments have been done with a high viscosity jet device and we are working on making fixed-target scanning available.

Recently a second MX beamline has been funded by the Danish Novo Nordisk Foundation. MicroMAX will become a micro-focusing beamline, which will allow investigations of micrometer sized protein crystals at room temperature using serial crystallography. Using a wide bandpass option, MicroMAX can be exploited also for time resolved crystallography down to the microsecond time resolution range. After a four-year construction period, the beamline will be ready for first experiments.

Presenter(s) : Dr. URSBY, Thomas (MAX IV, Lund university)