Stable Operation of MAX IV

MAX IV Laboratory, inaugurated in June 2016, has for the last 8 months accepted synchrotron users on three beamlines, NanoMAX, BioMAX and Hippie, while pushing forward with bringing more beamlines into commissioning and into a state where they can accept users. The last call was addressed for 10 beamlines. MAX IV has now reached a point when 11 beamlines simultaneously have shutters open and thus receive light during stable operation. With 16 beamlines funded, the number of beamlines taking light simultaneously will grow over the coming years.

The availability and reliability at MAX IV are constantly monitored and available through web interface. For 2019, up to mid September, the up time and meantime between failure has been 98%, 61 h for 1.5 GeV ring, 98%, 43 h for 3.0 GeV ring, and 98%, 42 h for the short pulse facility.

**DataSTaMP** project is divided in four key workpackages; Data Management of Experiments, Experimental Data and Metadata, Data Evaluation and Data Storage. The overall mission is to improve the value of the data generated at the facility in terms of the benefit to research, in the spirit of the European Open Science Cloud and the FAIR data principles. The DataSTaMP project is funded by Knut and Alice Wallenberg's foundation.

**Nanomax flyscanning motion and trigger scheme** allows time-based triggers to be sent to Dectris Pilatus, Quantum Detectors Merlin, and Xspress3 detectors in synchronisation with the measurement of the sample position when scanned linearly in one direction. During 2019 the system has been redeveloped, with an NPoint piezo stage capable of supporting a heavier sample environment.