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Chemical Crystallography at the Australian Synchrotron Macromolecular Beamlines

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The macromolecular (MX) beamlines at the Australian Synchrotron are mixed use between the structural biology (PX) and chemical crystallography (CX) communities. Since commissioning the high throughput MX1 bending magnet and the MX2 microfocus undulator beamlines have proven very successful for both communities.

With the deployment of upgrades to the optics, endstation and detectors, the beamlines are able to produce data at an astounding rate with high throughput crystallography the norm. For the calendar year of 2019, 51 million Eiger 16M frames were collected on MX2 equating to ~5 Petabytes of uncompressed data.

This increase in throughput necessitates the development of tools to give rapid feedback on data quality. There has also been the opportunity to develop automated collection of multiple CX datasets. An overview of these new tools will be presented.

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