

DIALS data processing for MicroED

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The DIALS project provides data processing and analysis tools for single crystal diffraction experiments. It has a modular and extensible design, which makes it a suitable choice for MicroED data processing. For example, the ability to read arbitrary image formats via plugin code can avoid data conversion steps, and a choice of algorithms within each DIALS program provides options for tricky cases. Most importantly, the toolkit is a free and open-source project, welcoming contributions from the community. The use of DIALS for MicroED will be presented, with examples including data collected at eBIC / Diamond Light Source and beyond. Directions for future improvements will be discussed, including new indexing algorithms for serialED snapshots.