

SEMINAR

Automated electron Diffraction Tomography (ADT)

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11am – 12noon
Rotunda Theatre R3, Building 8
Monash University Clayton Campus

Abstract

The recently developed method of Automated electron Diffraction Tomography (ADT) has proven to be a transformative approach for crystal structure elucidation in electron crystallography. ADT has enabled the structure solution of previously unobtainable structures, from minor phases in high pressure samples to partially disordered samples as well as meta-stable phases which do not grow large enough for single crystal studies or are produced in yields too low for powder studies.

The fundamentals of the technique will be presented along with examples of recently solved structures. Additionally heuristic arguments for the success of ADT when compared to previous approaches will be presented.

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Visitors are most welcome: Please note that there is a designated Visitors Car Park (S2) clearly ground-marked by white paint and tickets, at a cost of \$3.50/hour for up to 3 hours, available from a dispensing machine. This high-rise car park is located on the following Clayton Campus Map, Ref. E3.
[Printable version of the Clayton campus map \(pdf 833 kb\)](#) (Please right click to open link)