MONASH University

MONASH CENTRE FOR ELECTRON MICROSCOPY

SEMINAR

CBED Patterns From A Cubic Chiral Crystal Bi12 Ge 020

Associate Professor Andrew Johnson

Centre for Microscopy, Characterisation and Analysis

University of Western Australia

Thursday 6 November 2008, 12 noon – 1pm
Science Lecture Theatre S11, Bldg 25

Abstract

Recently a referee, well respected in the field of dynamical electron diffraction, suggested that the hand of a crystal is most simply found by comparing its convergent beam pattern with a Bloch Wave calculation. This led one to enquire 'how many dynamical electron diffraction programs are tested against a pattern from a crystal of known hand?' The answer appears to be very few, if any. Consequently, a range of crystals were examined to find one which might be suitable as a standard. The crystal in the title appears to be suitable and leads to some interesting patterns both in diffraction and HAADF images. The talk covers these preliminary results but calculations remain to be performed.

Convenor: Dr. Joanne Etheridge

Email: joanne.etheridge@mcem.monash.edu.au

Visitors are most welcome: Please note that there is a designated Visitors Car Park (N1) clearly ground-marked by white paint and tickets, at a cost of $1.4/hour for up to 3 hours, available from a dispensing machine. This high-rise carpark is located on the following Clayton Campus Map, Ref. B2.

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