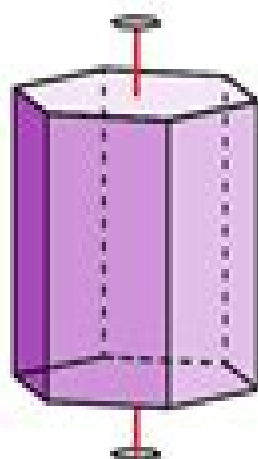


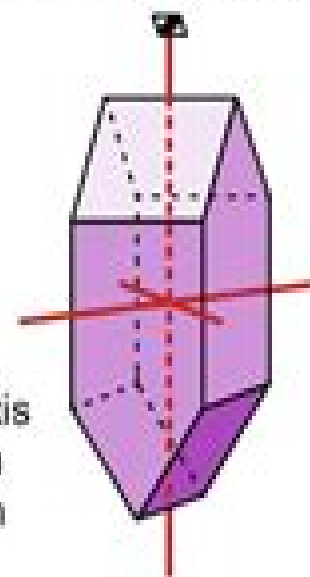
# Translation-free symmetry elements as expressed by crystal morphology

sixfold axis of rotation



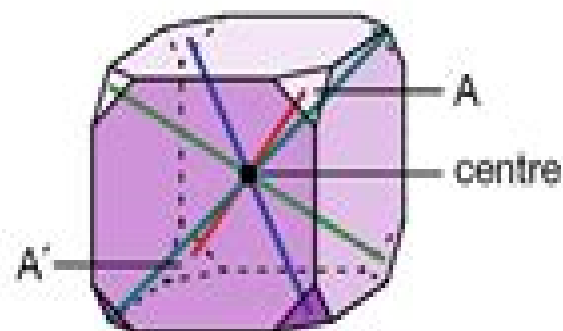
When rotated about its axis, the crystal repeats itself every  $60^\circ$  (six times in a  $360^\circ$  rotation).

fourfold axis of inversion



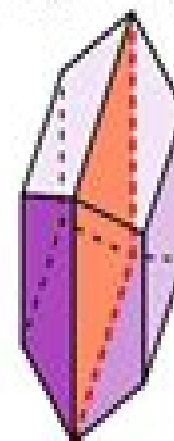
A rotoinversion axis combines rotation about an axis with inversion.

centre of symmetry



An imaginary line exists in the crystal if a line drawn through the centre links a point on one face to a similar point on an opposite face.

mirror plane/symmetry plane



An imaginary plane divides the crystal into mirrored halves.

# Symmetry In Physics In Memory Of Robert T Sharp

**Christian Drosten**



## **Symmetry In Physics In Memory Of Robert T Sharp:**

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