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Description of the Facility

Mission

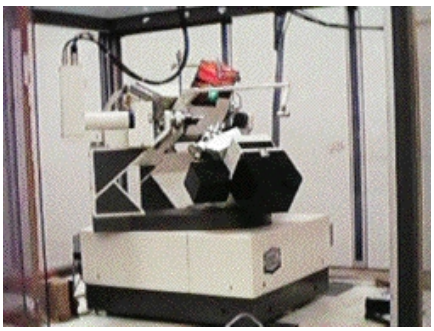
The mission of the CUNY X-ray Facility is to perform single-crystal analyses for the structure determination of molecules, which make up a crystal. This technique is called single-crystal X-ray crystallography. It is the ultimate method for definitive determination of molecular structures at the atomic level for both organic and inorganic compounds. Its uses range from simple identification of compounds to various exotic configuration and conformational studies.

Instruments

B ruker-Nonius KappaCCD System

Instrument: Bruker-Nonius KappaCCD, equipped with a CCD detector and a liquid-nitrogen low-tem

Capabilities: The KappaCCD, acquired in 2001, embodies the state-of-the-art technologies for rapid



Enraf-Nonius CAD4

Nonius CAD4 serial diffractometer, equipped with a scintillation detector and a liquid-nitrogen low-te

Capabilities: A serial diffractometer collects one diffraction spot at a time. This CAD4 is an excellent

Instrument: Nonius CAD4 serial diffractometer, equipped with a scintillation detector, liquid-nitrogen
Capabilities: The long 2theta-detector arm allows better resolution of diffraction spots for crystals wit

The low-temperature options immensely improve the flexibility of a diffractometer. When a crystal is

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