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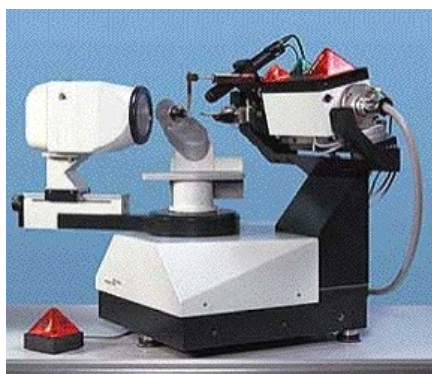
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Description of the Facility

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

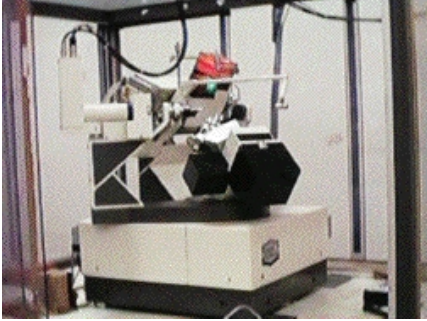


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ruker-Nonius KappaCCD System

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

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



Enraf-Nonius CAD4

Nonius CAD4 serial diffractometer, equipped with a scintillation detector and a liquid-nitrogen low-temperature stage.

Capabilities: A serial diffractometer collects one diffraction spot at a time. This CAD4 is an excellent instrument for high-resolution data collection.

Instrument: Nonius CAD4 serial diffractometer, equipped with a scintillation detector, liquid-nitrogen low-temperature stage, and a long 2 θ -detector arm.

Capabilities: The long 2 θ -detector arm allows better resolution of diffraction spots for crystals with low mosaicity.

The low-temperature options immensely improve the flexibility of a diffractometer. When a crystal is cooled to a low temperature, the thermal vibrations are reduced, leading to sharper diffraction spots and higher resolution.

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