Beam tube	. 6T (thermal source)
Monochromators	Cu 220 P.G. 002
Incident wavelength	. 0.90 Å, 1.55 Å, 2.35 Å
Collimation	$\alpha_1 = 14', 28', 57'$ $\alpha_2, \alpha_3 = 10', 30'$
Range of monochromator angles	. 2θ = 27° or 42°
Ranges of spectrometer angles	$\begin{array}{l}28^{\circ} < 2\theta < 140^{\circ} \\ -90^{\circ} < \omega < 90^{\circ} \\ -180^{\circ} < \chi < 180^{\circ} \\ -180^{\circ} < \phi < 180^{\circ} \\ -5^{\circ} < \nu < 26^{\circ} \end{array}$
Detector	. ³He
Ancillary equipement	 ★ Displex 5 K - 300 K ★ ⁴He cryostat 1.5 K - 300 K ★ Cryomagnet 7.5 T, 12 T ★ Dilution cryostat 30m K ★ High pressure cell

The diffractometer is equipped with two vertically focusing monochromators:

1) Copper (220) $\lambda = 0.90 \text{ Å (Er filter)}$

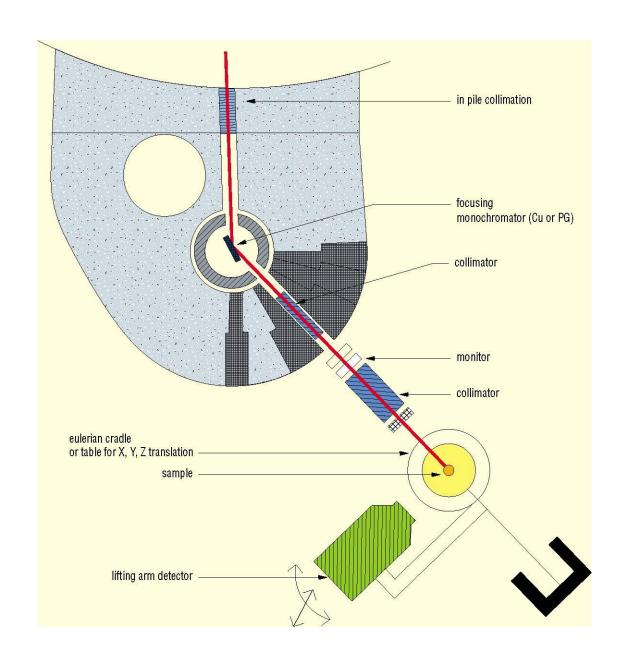
2) pyrolytique graphite (002) $\lambda = 1.55$ and 2.35 Å (PG filter).

configuration (bent monochromator, relaxed magnetic studies. collimation) or high resolution configuration (planar monochromator, short wavelength, tight The spectrometer is controlled by a Windows collimation) can be easily used.

Two types of diffractometer can be mounted:

- 1) 4-circles geometry : with an Eulerian (deported) cradle for structural studies of large unit cells (cell volumes of more than 1000 Å) and high resolution studies (phase transitions, etc...).
- 2) Lifting counter geometry using cryomagnet, Depending on the aim of experiment a high flux dilution cryostat and high pressure cell for

NT PC computer.



General layout of the diffractometer 6 T2.

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