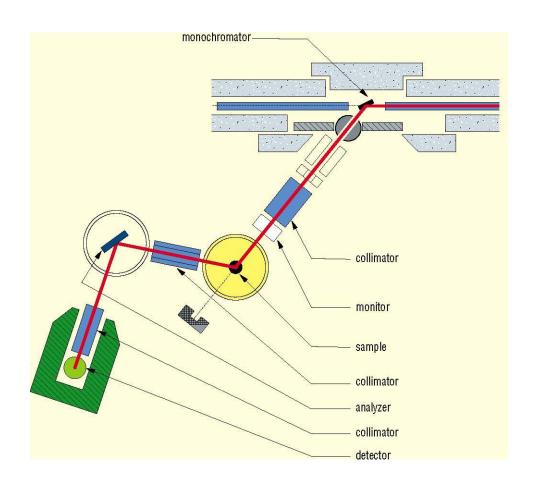
Beam tube	Neutron Guide G4 25 x 150 mm ²
Monochromator	Pyrolytic graphite 75 x 150 mm ²
Analyzer	Pyrolytic graphite 75 x 100 mm²
•	Vertically bent (curvature is adjusted automatically)
Incident wavelength	0.235 < λ < 0.6 nm
Incident energy resolution	
Collimations	
	on each arm after monochromator
Range of monochromator angle	40° < 20 < 140°
Range of scattering angle	
Range of analyzer angle	
Range of crystal orientation	
· ·	Eulerian cradle or goniometer
Max. flux at specimen	5.10 ⁵ n/cm ² sec (k̄ _i = 18.5 nm ⁻¹)
Beam size ar specimen	Width: 25 mm; height 50 mm
→ Momentum transfer 0 - 30 nm ⁻¹	
→ Energy transfer	0 - 3 Thz
Detector ³ He	
Ancillary equipment	★ Be filter (77 K)
	★ Furnace (20 - 1200°C)
	★ Multidetector : only in diffraction mode
	(without analyzer)
	★ Triple Axis Equipment Pool
	(see on front page of this chapter)

momentum and/or energy transfer are essential.

The neutrons are extracted from the guide by a The goniometers of this spectrometer permit to Wavelengths are available in the range of 0.235 nm to 0.6 nm which allows the use of a devices and magnets. pyrolytic graphite (ki = 26.62 nm⁻¹) or a beryllium (ki = 15 nm⁻¹) filter for suppressing second order contributions from the incident beam.

On the one hand this spectrometer is used for All modules are set on air cushions. The the investigation of inelastic scattering at low spectrometer is entirely controlled by a Unix energies with high resolution like measurements computer system and all elements (mechanical, of dispersion curves of phonons and magnons, electronical, software and data treatment) are phonon softening, etc... On the other hand it fully compatible with the other triple axis specserves for elastic studies on problems where trometers of the LLB. Because of its position at a good peak/background ratio, suppression of cold guide, the conditions are particularly inelastic scattering and high resolution of favourable for investigations requiring low background and excellent resolution.

focusing monochromator of pyrolytic graphite. mount every equipment available through the triple axis pool such as pressure cells, cooling



General layout of the spectrometer G 4-3.

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