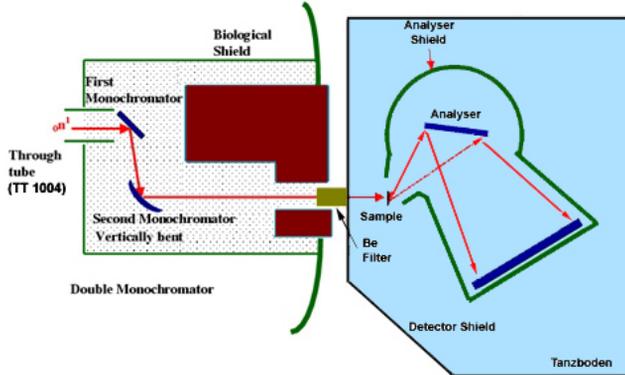


Quasielastic Spectrometer

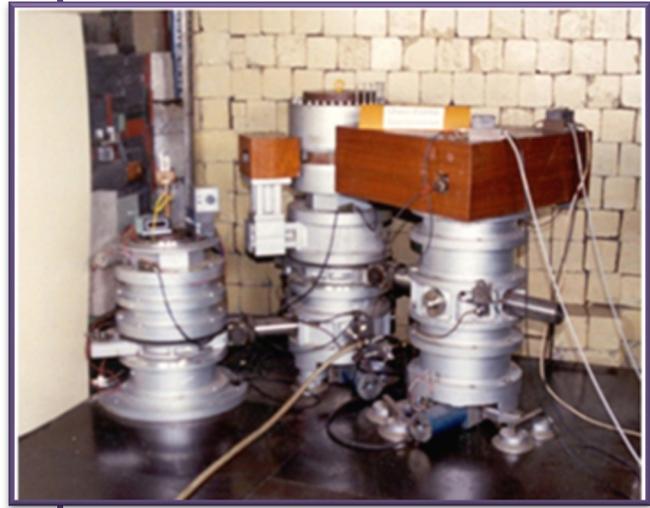
Instrument specifications:



Beam Hole no.	TT1004
2 Monochromators in tandem (second one vertically focussed): PG (0002) 100 x 80 mm ²	
$\lambda_{\text{incident}}$	1.3 – 4.7 Å
Scattering angle	$2\theta < 80^\circ$
Flux at sample	$5 \times 10^5 \text{ n/cm}^2/\text{s}^2$
Analyser (MARX mode)	PG(0002)
ΔE range (for $E_i = 4 \text{ meV}$)	2.3 meV
$\Delta E/E$	4%

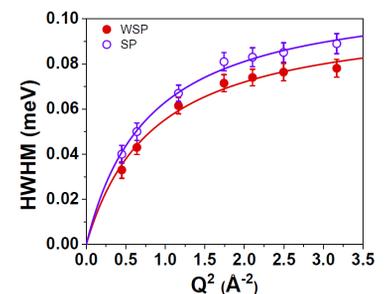
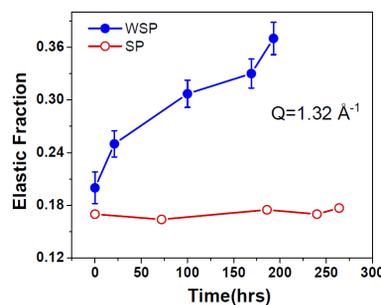
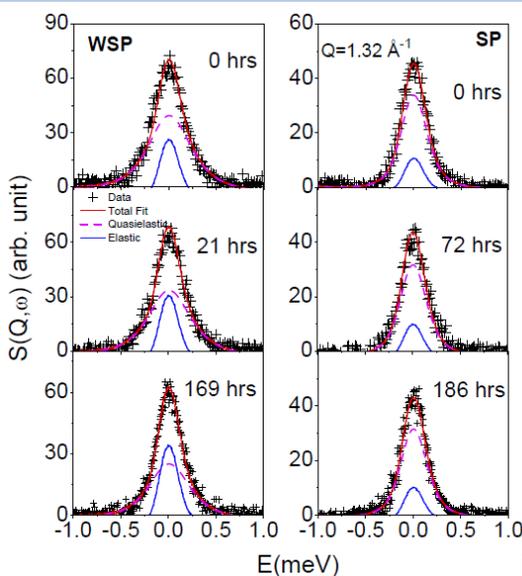
Distinct features

- By virtue of double monochromator, neutrons of different incident energy can be obtained at a fixed sample position.
- The instrument works in Multi angle Reflecting X-tal (MARX) mode thereby facilitating complete energy spectrum for one instrumental configuration.
- Provision to change in the distance between different axes to obtain different energy resolutions.
- The out-of-pile portion of the instrument is on a 'tanzboden' facilitating easy maneuvering.



- R. Mukhopadhyay, S. Mitra, S.K. Paranjpe, B. A. Dasannacharya, Nucl. Instr. Meth. A 474, (2001) 55.
- S. Mitra, R. Mukhopadhyay, Current Science 84, (2003) 653.

Effect on Hydrolysis due to Surface Passivation in Magnesium Aluminate Spinel Slurry



Singwi-Sjölander model of jump diffusion considering random distribution of jump length.

More and more water molecules become bound as the time progresses in case of WSP spinel slurry.

Journal of Dispersion Science and Technology, 35 (2014) 1442