

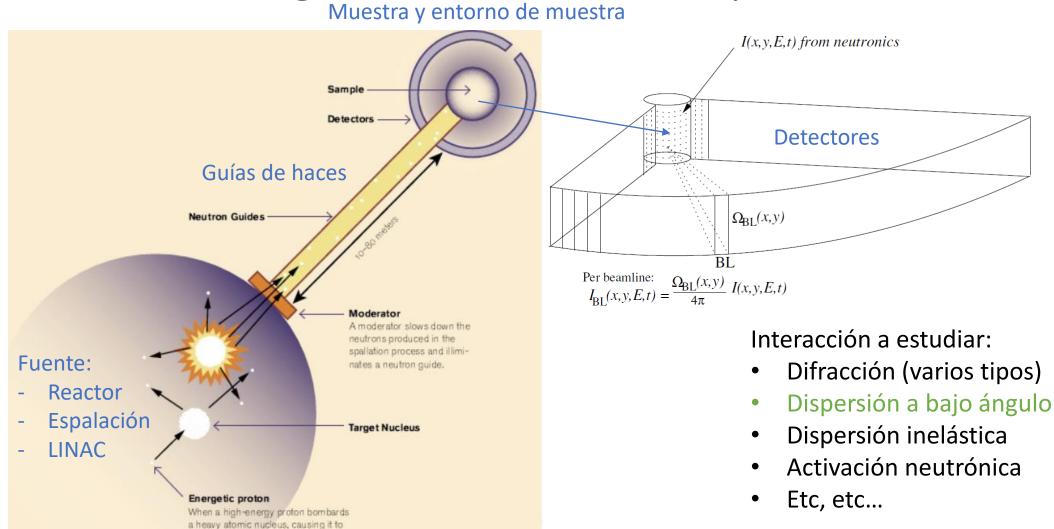
# Introducción a McStas

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### Cuestiones generales en un experimento



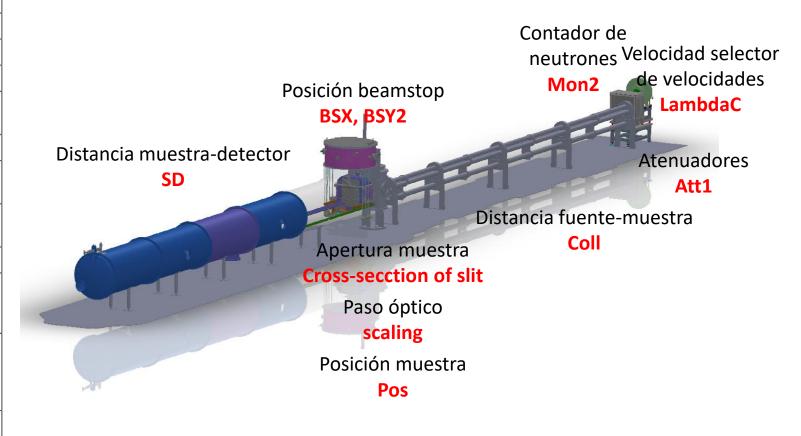
become excited, 20 to 30 neutrons are expelled.

#### Experimentos de SANS: V4

Neutron guide	NL 3A
Collimation	Entrance window: 50x30 mm <sup>2</sup> Collimator length: 2 m, 4 m, 8 m, 12 m (all also for SANSPOL), and 16 m
Monochromator	Mechanical velocity selector
Wavelength	$0.45 < \lambda < 2 \text{ nm}$
Wavelength resolution	$8\% < \Delta \lambda/\lambda < 18\% \text{ FWHM}$
Flux	$1.0\cdot 10^7$ n/cm <sup>2</sup> at $\lambda$ =0.5 nm, $\Delta\lambda/\lambda$ = 10% and collimation 2 m
Q range	0.01 nm <sup>-1</sup> < Q < 8.5 nm <sup>-1</sup>
Detector	ca. 1 m diameter, 112 Reuter-Stokes tubes, 1000 mm / 850 mm / 600 mm
Sample-to-detector distance	Horizontal: 1 to 16 m continuously Vertical offset: 0.17 m at short distance
Polarized neutrons	Yes
Instrument options	SANSPOL     Stroboscopic SANS     TISANE
Sample environment	<ul> <li>T-controlled automatic sample changer (5°C-70°C)</li> <li>Automatic sample changer with magnetic field 1.5T</li> </ul>
Software	BerSANS



Figure 1: View of V4 model.



Referencia: 10.17815/jlsrf-2-101

#### Experimentos de SANS: SANS-II

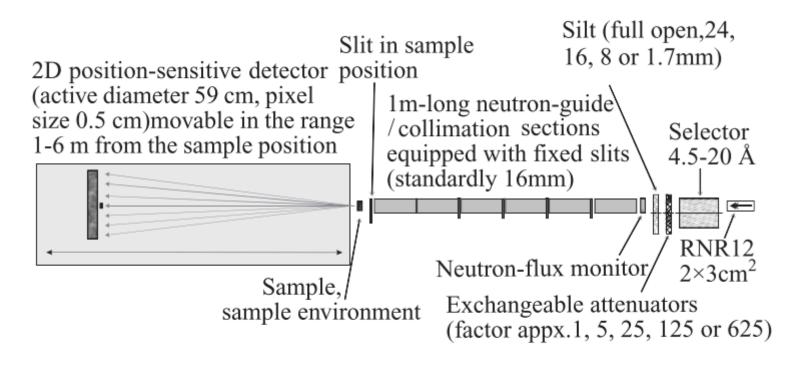


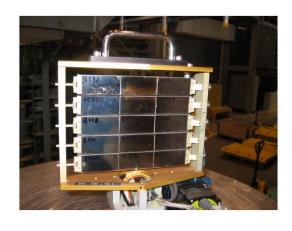
Fig. 1. SANS-II layout at PSI (at cold neutron guide RNR-12).

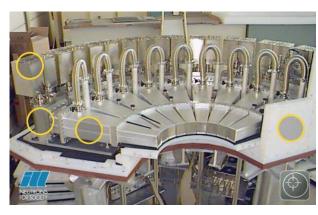
Referencia: 10.1016/j.physb.2004.03.204

### Componentes









Chopper

Selector de velocidades

Monocromador

**Detectores** 

Y mucho más...

http://www.mcstas.org/download/components/2.7/

## Conceptos claves en la simulación

