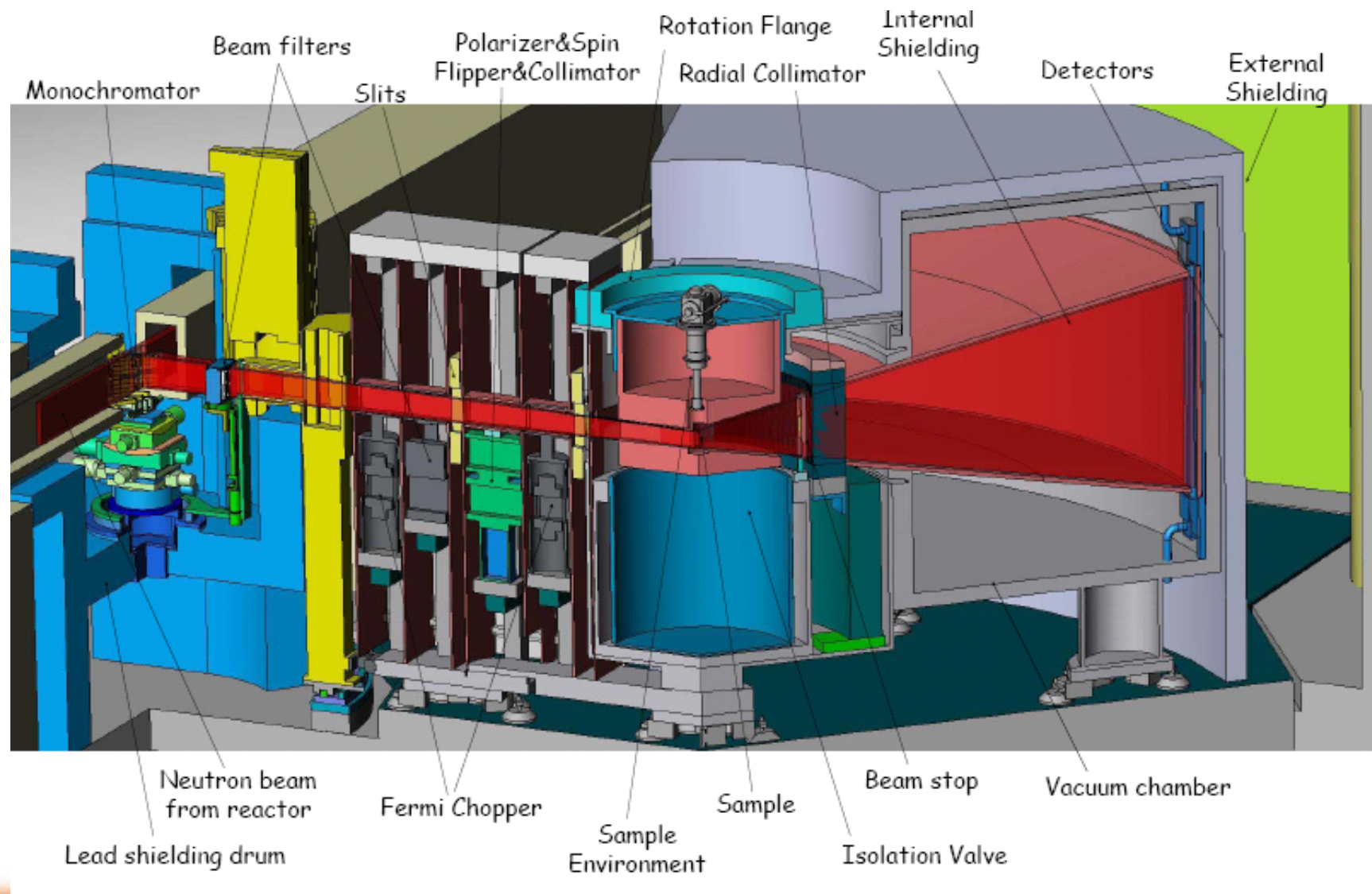


Pelican Layout



Specifications

- Neutron wavelength: 2.4 Å–6.3 Å, (14.2 meV–2.1 meV),
- Energy resolution: 50 μeV to 350 μeV (~2.5%),
- Q range: 0.08 Å⁻¹ – 4.5 Å⁻¹,
- Solid angle : 0.8 Steradians (non-pol),
- Neutron flux: 2.0x10⁵ n/cm²/s (4.0 Å tof), Max.
- Sample size: 2.5 cm x 8 cm
- Sample type: solid, liquid, glass and single crystals, etc.
- Sample temperature: 1.5 K to 2000 K
- Vacuum sample and detector chamber for highest quality data.
- Polarised incident beams

Scientific applications

- Crystal field excitation, phonon densities of states, short range order, atomic diffusion, atomic confinement, magnetic excitation in H-Tc superconductors, novel magnetic, thermo electrical and piezoelectrical materials,
- Molecular dynamics and diffusions in molecular magnets, hydrogen-bonding and storage systems, catalytic materials, cement, soils and rocks,
- Dynamics of protein structures, hydration process and ion diffusion through membranes biological samples,

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