



C1-2 SANS-U

(2D Pos. measurement small-angle inst.) Small Angle Neutron Scattering

**Measure microscopic structures
within soft and hard matter**



Efficiency	$Q \text{ range : } 1.5 \times 10^{-3} \text{ \AA}^{-1} < q < 0.35 \text{ \AA}^{-1}$ Wavelength : $7 \text{ \AA}$ as usual Wavelength Resolution : 10% Approx. Beam Size : 5, 10, 15 mm ϕ
Main ^3He PSD	Effective Area : $64.5 \times 64.5 \text{ cm}^2$ Data Array : 128×128 Position Resolution : $5 \times 5 \text{ mm}^2$ Sample-Detector Distance : 1-16 m
High Resolution Detector	Effective Area : $74 \text{ mm } \phi$ Data Array : 256×256 Sample-Detector Distance : 11.3 m fixed
Sample Changer	Number of samples : 12 samples Temp. Control Range : $10\text{--}80^\circ\text{C}$ Temp. Control Method : Peltier heating / cooling

C1-2 : SANS-U application cases

- ✓ Structural analysis of polymer solution, gel and resin
- ✓ Structural analysis of protein dilute solution
- ✓ Structural analysis of self-assembly in solution
- ✓ Structural analysis of high-strength gel under elongation

0% 100% 400% 900%

