

Nuclear Resonant Scattering

Beamline: **BL09XU**

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Subgroups: Nuclear Resonant Scattering
Surface and Interface Structure

Source Characteristics: In-vacuum-type undulator
 $\lambda_u=3.2\text{cm}$, $N=140$
Tunable range: 6~80keV
Brilliance at 14.4keV: 1.31kW
Power density at 14.4keV: 141kW/mrad²
Source size: $\Sigma_x=0.41\text{mm}$, $\Sigma_y=0.035\text{mm}$,
 $\Sigma'_x=0.017\text{mrad}$, $\Sigma'_y=0.0039\text{mm}$

Optics: Distance from source to optical element: 40m
Rotated-inclined double crystal monochromator
Energy resolution: $\Delta E/E \sim 10^{-4}$

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