

Table 2. Beamlines Available for 2022B Beamtime by Proposal Type

Beamlines		User Time Ratio to Total Beamtime	Review (per year)	Period	Proposal Type					Measurement Service ²
No.	Name				Proprietary General	General ¹ ★	Non-Proprietary Grant-Aided ¹	Budding Researchers ¹ ★	Long-Term Graduate Student ¹	
Public BLs (26 BLs)										
BL01B1	XAFS I	approx. 80%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	
BL02B1	Single Crystal Structure Analysis	approx. 80%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	
BL02B2	Powder Diffraction	approx. 80%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	
BL04B1	High Temperature and High Pressure Research	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL04B2	High Energy X-ray Diffraction	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL08W	High Energy Inelastic Scattering	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL09XU	HAXPES I	approx. 80%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	
BL10XU	High Pressure Research	approx. 65%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL13XU	X-ray Diffraction and Scattering I	approx. 80%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	
BL14B2	XAFS II	approx. 80%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	XAFS
BL19B2	X-ray Diffraction and Scattering II	approx. 75%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	Powder X-ray Diffraction, SAXS
BL20B2	Medical and Imaging I	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL20XU	Medical and Imaging II	approx. 65%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL25SU	Soft X-ray Spectroscopy of Solid	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL27SU	Soft X-ray Photochemistry	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL28B2	White Beam X-ray Diffraction	approx. 70%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL35XU ⁴	Inelastic and Nuclear Resonant Scattering	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL37XU	Trace Element Analysis	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL39XU	Magnetic Materials	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL40B2	SAXS BM	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL40XU	High Flux	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL41XU	Macromolecular Crystallography I	approx. 80%	twice	Research Fields except Structural Biology Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
				Structural Biology Oct 2022 - Aug 2023 ⁵	✓	✓		✓	✓	
BL43IR	Infrared Materials Science	approx. 80%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
BL45XU	Macromolecular Crystallography II	approx. 80%	twice	Research Fields except Structural Biology Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
				Structural Biology Oct 2022 - Aug 2023 ⁵	✓	✓		✓	✓	
BL46XU	HAXPES II	approx. 80%	six times	Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	HAXPES
BL47XU	Micro-CT	approx. 65%	twice	Reserch Fields except Industrial Oct 2022 - Feb 2023	✓	✓	✓	✓	✓	
				six times Industrial ⁸ Oct - mid-Nov 2022 ³	✓	✓	✓	✓	✓	
CryoTEMs										
EM01CT / EM02CT ⁶	Cryo TEM1 / Cryo TEM2	under trial operation	twice	Structural Biology Oct 2022 - Aug 2023 ⁵	✓	✓	✓	✓	△	
RIKEN BLs (11 BLs)										
BL05XU	R&D-ID	approx. 5%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
BL17SU	RIKEN Coherent Soft X-ray Spectroscopy	approx. 20%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
BL19LXU ⁴	RIKEN SR Physics	approx. 15%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
BL26B1	RIKEN Structural Genomics I	approx. 80%	twice	Research Fields except Structural Biology Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
				Structural Biology Oct 2022 - Aug 2023 ⁵	✓	✓		✓	△	
BL26B2	RIKEN Structural Genomics II	approx. 20%	twice	Research Fields except Structural Biology Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
				Structural Biology Oct 2022 - Aug 2023 ⁵	✓	✓		✓	△	
BL29XU	RIKEN Coherent X-ray Optics	approx. 20%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
BL32XU	RIKEN Targeted Proteins	approx. 20%	twice	Research Fields except Structural Biology Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
				Structural Biology Oct 2022 - Aug 2023 ⁵	✓	✓		✓	△	
BL36XU	RIKEN Materials Science II	approx. 10%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
BL38B1 ⁷	IRKEN Structural Biology I	approx. 20%	twice	Structural Biology Oct 2022 - Aug 2023 ⁵	✓	✓		✓	△	
BL43LXU ⁴	RIKEN Quantum NanoDynamics	approx. 5%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	△	
BL44B2	RIKEN Materials Science I	approx. 10%	twice	Oct 2022 - Feb 2023	✓	✓	✓	✓	△	

★: Available for complementary use with SACLA, J-PARC MLF or HPCI including the K computer / the supercomputer Fugaku.

¹ Only non-proprietary research is available.

² Only proprietary research is available. Can be submitted at any time and be reviewed on a rolling basis.

³ JASRI will invite proposals to be conducted during the second and the third periods of 2022B in August and October 2022, respectively.

⁴ Proposals for high-resolution inelastic X-ray scattering will automatically be considered for both BL35XU and BL43LXU: please select BL35XU as beamline choice at application. Similarly, Nuclear Resonant Scattering proposals to BL35XU will also automatically be considered at BL19LXU.

⁵ The research period of proposals using BL41XU, BL45XU, BL32XU or BL26B1/B2 for General Proposals, Budding Researchers Support Proposals in the field of Structural Biology and Proprietary General Proposals is set as one year, and the beamtime will be allocated 4 - 5 times a year as needed. In addition, BL38B1 and EM01CT/EM02CT are applicable only for the proposals in the field of Structural Biology and available proposal types are different from other beamlines.

⁶ Applications to EM01CT/EM02CT need to be accompanied by applications to other synchrotron beamlines, regardless of the types of proposal.

⁷ Only proposals for Biological Small-Angle Scattering (BioSAXS) research can be applied at BL38B1.

⁸ Only for proposals using the installed imaging equipment.