

Table 2. Beamlines Available for 2024B Beamtime by Proposal Type

Beamline		User Time Ratio to Total Beamtime	Review (per year)	Period	Proposal Type					Measurement Service ²	
No.	Name				Proprietary	General ^{1★}	Non-Proprietary Priority ¹		Graduate Student ^{1★}		Long-Term Graduate Student ¹
							regular	One-Year ⁸			
Public BLs											
BL01B1	XAFS I	approx. 80%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	
BL02B1	Single Crystal Structure Analysis	approx. 70%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	
BL02B2	Powder Diffraction	approx. 75%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	
BL04B1	High Temperature and High Pressure Research	approx. 70%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL04B2	High Energy X-ray Diffraction	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL08W	High Energy Inelastic Scattering	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL09XU	HAXPES I	approx. 80%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	
BL10XU	High Pressure Research	approx. 70%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL13XU	X-ray Diffraction and Scattering I	approx. 80%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	
BL14B2	XAFS II	approx. 80%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	XAFS
BL19B2	X-ray Diffraction and Scattering II	approx. 75%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	Powder X-ray Diffraction, SAXS
BL20B2	Medical and Imaging I	approx. 70%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL20XU	Medical and Imaging II	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL25SU	Soft X-ray Spectroscopy of Solid	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL27SU	Soft X-ray Photochemistry	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL28B2	White Beam X-ray Diffraction	approx. 60%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	CT
BL35XU ⁴	Inelastic and Nuclear Resonant Scattering	approx. 75%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL37XU	Trace Element Analysis	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL39XU	Magnetic Materials	approx. 75%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL40B2	SAXS BM	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL40XU ⁹	High Flux	approx. 60%	twice	Sep 2024 - Dec 2024	✓	✓	✓		✓	✓	
BL41XU	Macromolecular Crystallography I	approx. 70%	twice	Research Fields except Structural Biology Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
				Structural Biology Sep 2024 - Jul 2025 ⁵	✓	✓		✓	✓		
BL43IR	Infrared Materials Science	approx. 80%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
BL45XU	Macromolecular Crystallography II	approx. 80%	twice	Research Fields except Structural Biology Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
				Structural Biology Sep 2024 - Jul 2025 ⁵	✓	✓		✓	✓		
BL46XU	HAXPES II	approx. 80%	six times	Sep - early Nov 2024 ³	✓	✓	✓		✓	✓	HAXPES
BL47XU	Micro-CT	approx. 65%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	✓	
RIKEN BLs											
BL05XU ⁹	R&D-ID I	approx. 10%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL07LSU	R&D-ID II	approx. 10%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL16XU	Analytical Science I	approx. 15%	six times	(Starting from 2nd period of 2024B)	✓	✓	✓		✓	△	
BL17SU	RIKEN Coherent Soft X-ray Spectroscopy	approx. 20%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL19LXU ⁴	RIKEN SR Physics	approx. 15%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL26B1	RIKEN Structural Genomics I	approx. 80%	twice	Research Fields except Structural Biology Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
				Structural Biology Sep 2024 - Jul 2025 ⁵	✓	✓		✓	△		
BL29XU	RIKEN Coherent X-ray Optics	approx. 20%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL32B2	R&D-BM	approx. 10%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL32XU	RIKEN Targeted Proteins	approx. 10%	twice	Research Fields except Structural Biology Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
				Structural Biology Sep 2024 - Jul 2025 ⁵	✓	✓		✓	△		
BL36XU	RIKEN Materials Science II	approx. 20%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL38B1 ⁷	RIKEN Structural Biology I	approx. 10%	twice	Structural Biology Sep 2024 - Jul 2025 ⁵	✓	✓			✓	△	
BL43LXU ⁴	RIKEN Quantum NanoDynamics	approx. 20%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
BL44B2	RIKEN Materials Science I	approx. 5%	twice	Sep 2024 - Feb 2025	✓	✓	✓		✓	△	
Contract BL											
BL24XU	Hyogo ID	approx. 20%	six times	Sep - early Nov 2024 ³	✓						
CryoTEMs											
CryoTEM	EM01CT / EM02CT / EM03CT / EM04CT ⁶	under trial operation	twice	Research Fields except Structural Biology Sep 2024 - Feb 2025			✓				
				Structural Biology Sep 2024 - Jul 2025 ⁵	✓	✓		✓	△		

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

¹ Non-proprietary research proposals.

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 third periods of 2024B, in July to August and September to October 2024, 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 for General Proposals, Graduate Student Proposals in the field of Structural Biology and Proprietary 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/EM03CT/EM04CT are applicable only for the proposals in the field of Structural Biology and available proposal types are different from other beamlines.

⁶ Applications to CryoTEMs 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 There is no call for the One-Year proposals of Non-Proprietary Priority Proposal for the 2024B term.

⁹ Proposals for SAXS/WAXS submitted to BL40XU in 2024B will automatically be reviewed at BL05XU as well.