X-Ray Beamline Guide

Beam line	Research Program	Energy (keV)	Affiliation	Local Contact	Spokesperson
X1A	Soft x-ray imaging	0.25-1.0	SUNY@SB No Carolina St U BNL-NSLS LBNL ANL	S Wirick 516-344-5601 516-632-8095	J Kirz 516-632-8106 C Jacobsen 516-632-8093 516-344-4723
X1B	Soft x-ray spectroscopy	0.2-0.9	BNL-Physics KFA - Juelich Fritz-Haber-Inst Boston U	P Johnson 516-344-5701 516-344-3705	P Johnson 516-344-5701 516-344-3705
X2A	(Available)				
X2B	X-ray microtomo-graphy	6.5-30, WB	Exxon	S Bennett 516-344-5610 516-344-4719	J Dunsmuir 908-730-2548
X3A1	Short wavelength crystallography, diffration and scattering	18.2-29.7	SUNY@Buff SUNY@SB Amoco Corp Alfred U	L Ribaud 516-344-5603 716-645-6800x2218 G Wu 516-344-5603	P Coppens 716-645-6800,x2217
X3A2	Diffractometry; x-ray spectroscopy; scattering; crystallography; small angle scattering	4.34	SUNY@SB SUNY@Buff Amoco Corp Alfred U	L Ribaud 516-344-5603 716-645-6800x2218 G Wu 516-344-5603	P Coppens 716-645-6800,x2217
X3B1	X-ray spectroscopy; powder diffraction	4-40	SUNY@SB SUNY@Buff Amoco Corp Alfred U	L Ribaud 516-344-5603 716-645-6800x2218	P Coppens 716-645-6800,x2217

Beam line	Research Program	Energy (keV)	Affiliation	Local Contact	Spokesperson
X3B2	Surface science	4-20	SUNY@Buff SUNY@SB Amoco Corp Alfred U	L Ribaud 516-344-5603 716-645-6800x2218	P Coppens 716-645-6800,x2217
X4A	Multiwavelength anomalous diffraction analysis of crystalline biological macromolecules	4-30	Howard Hughes	C Ogata 516-344-5604 516-344-7435	W Hendrickson 212-305-3456
X4B	(Conceptual)				
X4C	Diffraction meas. from biological macromolecules	4-15	Howard Hughes	C Ogata 516-344-5604 516-344-7435	W Hendrickson 212-305-3456
X5A	Laser Electron Gamma Source (LEGS); medium energy nuclear physics	140-470	BNL-Physics Norfolk St U Ohio U U of So Carolina SUNY@SB Syracuse U U of Virginia VA Polytech & St U U of Paris KFA-Juelich Frascati Natl Lab U of Rome II Osaka U	C Thorn 516-344-5605 516-344-7798	A Sandorfi 516-344-7951
X5B	Diagnostic				
X6A	(Available)				
X6B	(Available)				

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				516-344-5930	516-344-2738
X7A	High resolution structural studies through powder diffraction	5-45	Air Products & Chem BNL-Physics Mobil Carnegie Inst of Was UOP U of Pennsylvania SUNY@SB Chevron UCA@Santa Barbara NIST	D Cox 516-344-5607 516-344-3818	D Cox 516-344-5607 516-344-3818
X7B	Crystallography; wide angle scattering	5-21	Swedish Nat Res Coun BNL-Chemistry	J Hanson 516-344-5707 516-344-4378	T Koetzle 516-344-4384
X8A	Calibration of mirrors & dector systems; material optical constants; spectrometric properties	0.26-5.9	Los Alamos Natl Lab Smiths Astro Obs Bechtel Nevada Sandia Natl Lab Pacific NW Natl Lab	M Sagurton 516-344-5708	R Blake 505-466-0566 516-344-5521
X8C	Diffraction from biological macromolecules and detector calibrations AXAF	5-20	Los Alamos Natl Lab Natl Res Coun/Canada UCA@LA Hoffman-La Roche BNL-Biology	M Sagurton 516-344-5708	J Berendzen 505-665-2552
X9A	Time-resolved x-ray footprinting;	White Beam	Albert Einstein Rockefeller U Sloan-Kettering Inst	M Sullivan 516-344-5609 516-344-3800	M Chance 718-430-4136 718-430-2894
X9B	Small angle scattering; EXAFS; multiple anomalous diffraction (MAD); protein x-ray diffraction	2.1-18.8	Albert Einstein NIH	M Sullivan 516-344-5787 516-344-3800	M Chance 718-430-4136 718-430-2894
X10A	Diffraction; small angle scattering; crystallography; scattering; SAXA; WAXS	6-15.2	Exxon	S Bennett 516-344-5610 516-344-4719	R Kolb 908-730-2970
X10B	Scattering; crystallography PXD, Reflectivity	8 and 12	Exxon	S Bennett 516-344-5610 516-344-4719	R Kolb 908-730-2970

Beam line	Research Program	Energy (keV)	Affiliation	Local Contact	Spokesperson
X10C	EXAFS	4.0-24.0	Exxon	M Sansone 516-344-3265 516-344-5759	P Stevens 908-730-2584
X11A	EXAFS	4.5-35	Naval Res Lab Mobil U of Connecticut No Carolina St U Paul Scherrer Inst BNL-DAS The DuPont Co U of Washington Rice U Ill Inst Tech (IIT) Naval Surf War Cntr Georgia Inst Tech U of Notre Dame Advanced Fuel NJ Inst of Tech	K Pandya 516-344-5611 516-344-7734	D Sayers 919-515-4453
X11B	EXAFS	1.7-8	Naval Res Lab NJ U of Tech Mobil No Carolina St U The DuPont Co BNL-DAS U of Connecticut Paul Scherrer Inst Naval Surf War Cntr Ill Inst Tech (IIT) U of Washington Rice U	K Pandya 516-344-5611 516-344-7734	D Sayers 919-515-4453
X12A	Instrument development and x-ray physics		BNL-NSLS	J Ablett 516-344-2738 516-344-5627	P Siddons 516-344-2738
X12B	Time-resolved and static x-ray diffr. of macromol. crystallography	7.6-13.06	BNL-Biology	M Capel 516-344-5712 516-344-5234	M Capel 516-344-5712 516-344-5234
X12C	Macromolecular crystallography; multi-wavelength anomalous dispersion (MAD)	8-13	BNL-Biology	R Sweet 516-344-5642 516-344-3401	R Sweet 516-344-5642 516-344-3401

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X13A, X13B	R&D optics development; soft x-ray utilization		BNL-NSLS	E Johnson 516-344-5913 516-344-4603	E Johnson 516-344-5913 516-344-4603
X14A	Scattering crystallogr. spectroscopy phase ID and resid. strain meas. high temp x-ray diffraction	2.5-40	Oak Ridge Natl Lab Univ of Ill Urb Cham U of Tennessee U of Houston Sandia Natl Lab	J Bai 516-344-5614 516-344-2583	G Ice 423-574-2744
X14B	(Planned) Manuf. res. for hard x-ray lithogrphy exposures for precision microfabrication	White	BNL-NSLS	E Johnson 516-344-5913 516-344-4603	E Johnson 516-344-5913 516-344-4603
X15A	X-ray standing waves	3-20, WB	ANL BNL-NSLS Northwestern U No Carolina St U Ill Inst Tech (IIT)	Z Zhong 516-344-5617	M Bedzyk 847-252-7763 516-344-7395
X15B	X-ray absorption spectroscopy of complex, reactive, very dilute systems	1.8-10	Lucent Tech	P Northrup 516-344-3565	P Citrin 908-582-5275
X16A	Surface diffraction	4-12	Lucent Tech U of Illinois	W Lehnert 516-344-5715 516-344-3635	K Evans-Lutterodt 908-582-2154 516-344-2125
X16B	rapid access for sample characterization; powder characterization;thin film characeterization	7.85	Lucent Tech	W Lehnert 516-344-5715 516-344-3635	K Evans-Lutterodt 908-582-2154 516-344-2125
X16C	Novel spectroscopy; diffraction	3-16	Lucent Tech U of Illinois	W Lehnert 516-344-5715 516-344-3635	K Evans-Lutterodt 908-582-2154 516-344-2125
X17B1	X-ray scattering at high pressure and temperature	20-100, WB	BNL-NSLS SUNY@SB	Z Zhong 516-344-5717 516-344-5617	J Hastings 516-344-3930 516-344-5514
X17B2	Medical research: radiotherapy	27-35	BNL-NSLS BNL-Medical Stanford U Ill Inst Tech (IIT) Stanford U	N Gmür 516-344-5617 516-344-2490	W Thomlinson 516-344-3937

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X17C	Hi P research; energy dispersive diffraction from microscopic sample volumes	10-100, WB	Naval Res Lab LLNL Carnegie Inst of Was U of Chicago	J Hu 516-344-5917 202-686-2410	H Mao 202-686-4454 E Skelton 202-767-3014
X18A	Diffuse and surface scattering	4-20	U of Missouri U. of Maryland BNL-DAS U of Illinois Purdue U Penn St U	S Ehrlich 516-344-5618 516-344-7862	G Liedl 317-494-4100
X18B	X-ray spectroscopy	7-40	UOP Chevron AlliedSignal BNL-NSLS Dow Chem PPG Industries General Electric	S Khalid 516-344-5718 516-344-7496	P Siddons 516-344-2738 S Khalid 516-344-7496
X19A	X-ray absorption spectroscopy: EXAFS and XANES	2-8	BNL-DAS Rutgers U BNL-NSLS U of Kentucky UCA@Davis	S Khalid 516-344-5718 516-344-7496	S Khalid 516-344-5718 516-344-7496
X19C	Topography; liquid surface scattering	4-25, WB	Johns Hopkins U Army Research Lab SUNY@SB NASA U of Wisconsin Northrop Grumman Dartmouth Coll U of Chicago U of Illinois	Z Huang 516-344-5719 312-702-7229	M Dudley 516-632-8500
X20A	X-ray Scattering and diffraction	6.3-12	MIT IBM	J Jordan-Sweet 516-344-5720 914-945-3322	R Birgeneau 617-253-4937
X20B	Scattering at fixed energy	17.4 (fixed)	IBM MIT	J Jordan-Sweet 516-344-5720 914-945-3322	J Jordan-Sweet 516-344-5720 914-945-3322

Beam line	Research Program	Energy (keV)	Affiliation	Local Contact	Spokesperson
X20C	X-ray scattering and diffraction with high flux by multilayer monochromator	4-11	IBM MIT	J Jordan-Sweet 516-344-5720 914-945-3322	J Jordan-Sweet 516-344-5720 914-945-3322
X21	Inelastic x-ray scattering	5-10	BNL-NSLS	C Kao 516-344-5721 516-344-4494	C Kao 516-344-5721 516-344-4494
X22A	X-ray scattering of thin films, multilayers, catalytic materials, electrochemical interfaces	10 NOM.	BNL-Physics BNL-DAS U of Maryland	J Hill 516-344-3736 516-344-5622	D Gibbs 516-344-4608 516-344-5622
X22B	X-ray scattering and surfaces; magnetic stud. under magnetic fields	5-10	BNL-Physics ANL	E DiMasi 516-344-5622 516-344-2211	D Gibbs 516-344-4608
X22C	X-ray Scattering studies of magnetism; structure and phase behavior of metal surfaces	3-12	BNL-Physics ANL U of Maryland	J Hill 516-344-5622 516-344-3736	D Gibbs 516-344-4608
X23A2	EXAFS	4.7-30	NIST	J Woicik 516-344-5823 516-344-5236	J Woicik 516-344-5823
X23A3	Topography; small-angle scattering	5-30, WB	NIST	D Fischer 516-344-5507 516-344-5177	G Long 301-975-5975 516-344-5623
X23B	EXAFS; scattering; crystallography	3-10.5	Naval Res Lab	J Kirkland 516-344-5723 516-344-2258	T Elam 202-767-3015

Beam line	Research Program	Energy (keV)	Affiliation	Local Contact	Spokesperson
X24A	Atomic, molecular, and optical physics with x-rays	1-5	NIST BNL-NSLS Northwestern U U of Rhode Island U of Tennessee Brooklyn Coll - CUNY U of Maryland	B Karlin 516-344-7863 516-344-5624	T Jach 301-975-2362
X24C	Photoemission and reflectance spectroscopy	6-1800 eV	Naval Res Lab	J Rife 516-344-5724 202-767-4654	M Kabler 202-767-2223
X25	High intensity, high brightness photon beam; high Q-resolution elastic scattering	3-30	BNL-NSLS	L Berman 516-344-5625 516-344-5333	L Berman 516-344-5625 516-344-5333
X26A	X-ray Microscopy; structural biology; atomic and molecular physics	4-20, WB	U of Chicago/CARS BNL-DAS BNL-Biology U of Georgia/SREL Cold Spring Harb Lab SUNY@SB	G Shea-McCarthy 516-344-5626 516-344-2229	S Sutton 630-252-0426
X26C	Dev. and applic. of x-ray microscopy techniques; Laue diffraction protein crystallography	4-30, WB	BNL-Biology BNL-DAS U of Chicago/CARS U of Georgia/SREL Cold Spring Harb Lab SUNY@SB	G Shea-McCarthy 516-344-5726 516-344-2229	R Xu 516-367-8872
X27A	NSLS R&D only; instrument development and x-ray physics		BNL-NSLS	B Dowd 516-344-5738 516-344-7092	P Siddons 516-344-2738
X27B	NSLS R&D only; Develop exposure techniques; matls. char.; and tool development for microfab.		BNL-NSLS	E Johnson 516-344-5627 516-344-4603	E Johnson 516-344-5627 516-344-4603

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X27C	Simultaneious small & wide angle x-ray scattering (SWAX) in real time		AlliedSignal BNL-Physics General Electric USAF Montell Polyolefins NIST SUNY@SB NIH	F Yeh 516-344-5627 516-632-7892	B Hsiao 516-632-7793
X28A	Instrument development; and detector development for the X-ray Ring		BNL-NSLS	E Johnson 516-344-5913 516-344-4603	E Johnson 516-344-4603
X28B	Photon-based diagnostics and detector development for the X-ray Ring		BNL-NSLS	E Johnson 516-344-4603 516-344-5913	E Johnson 516-344-4603
X28C	Photon-based diagnostics and detector development for the X-ray Ring		BNL-NSLS	P Stefan 516-344-2117 516-344-5728	P Stefan 516-344-2117
X29A	(Available)				
X29B	(Available)				
X30	Diagnostic Instrument		BNL-NSLS		