

Hard X-ray Inelastic Scattering			Resources Available - BE		
			Mid 2012	Mid 2014	Mid 2016
Beamline	Technique	X-ray Source	Total	Total	Total
NSLS			0	0	0
None					
APS			3.9	3.9	5.2
3-ID-B,D	NRIXS, 0.5-2 meV	Undulator	0.5	0.5	0.5
3-ID-C	HERIX, 1-3 meV	Undulator	0.5	0.5	0.5
9-ID-B	MERIX, 70-300 meV	Undulator	0.5	0.5	1 ^a
16-ID-B	NRIXS, 0.5-2 meV	Undulator			
16-ID-B	XRS, (R)-XES, 1 eV	Undulator			
20-ID	LERIX, 1 eV	Undulator	0.25	0.25	0.75 ^b
20-ID	XES (by minIXS), 1 eV	Undulator	0	0	0
30-ID-B	MERIX, 70-300 meV	Undulator	0.5	0.5	0 ^a
30-ID-C	HERIX, 1-3 meV	Undulator	0.5	0.5	0.8 ^a
ALS			0	0	0
None					
SSRL			0.5	0.5	0.5
BL6-2	XES, RIXS, Raman	Wiggler	0.5	0.5	0.5
NSLS-II			0	0	1
IXS	HERIX, 0.1-1 meV	Undulator	0	0	1
HIX	H-RIX, 10-50 meV ^c	Undulator	0	0	0
HIX	I-RIX, 200-300 meV ^d	Undulator	0	0	0
Totals - NRIXS			0.5	0.5	0.5
Totals - HERIX			1	1	2.3
Totals - MERIX			1	1	1
Totals - LERIX			0.25	0.25	0.75
Totals - XRS, (R)-XES			1.35	1.35	1.85
Total			4.1	4.1	6.4

	NRIXS, 0.5-2 meV:	Nuclear Resonant IXS (momentum integrated vibrational dynamics, phonon density of states)
	HERIX, 1-3 meV:	High Energy Resolution IXS (momentum resolved vibrational dynamics, phonons)
	MERIX, 70-300 meV:	Medium Energy Resolution IXS (momentum resolved charge dynamics, including both resonant and non-resonant studies)
	LERIX, 1 eV:	Low Energy Resolution IXS (momentum resolved charge dynamics, valence and core electronic excitations)
	XRS, (R)-XES, 1 eV:	X-ray Raman Scattering, (Resonant) X-ray Emission Spectroscopy

BE - Beamline equivalent - 1 BE is a station running the full operating schedule of the facility. Typically 5000 hours/year.

Boldface = oversubscribed

Footnotes:

a = Changes due to APS upgrade plan to combine MERIX of 30-ID with that of 9-ID into a fully dedicated beamline for MERIX experiments.

b = Changes due to APS upgrade plan to create two beamlines out of the existing 20-ID using canted undulators.

c = H-RIX is similar to MERIX but with improved energy resolution to 10-50 meV, designed for studies of momentum resolved charge dynamics.

d = I-RIX is similar to LERIX but with improved energy resolution to 200-300 meV, which matches the lifetime of the core holes.