

Chapter 4 User Operations

Proposal Call, Review and Selection

The public beamlines are fully open to general users, and the RIKEN beamlines and some contract beamlines are partially available to general users. SPring-8 receives proposals from general users twice a year, except for urgent proposals and some industrial application proposals. The urgent proposals are always received on their submission, and industrial application proposals for BL14B2, BL19B2 and BL46XU are received every three months.

Submitted proposals are reviewed by referees, and then the Proposal Review Committee selects proposals on the basis of referees' evaluations and decides how much beamtimes should be allocated to the selected proposals. The Proposal Review Committee consists of the following sections.

1. Life Science
2. Diffraction and Scattering
3. XAFS and Fluorescence Analysis
4. Spectroscopy
5. Industrial Application

JASRI authorizes the project leaders of the selected proposals to perform their experiments. The projects of general proposals are valid for a single research term (six months), but the project leader can request a one-year long project for BL02B1, BL04B1, BL10XU and BL27SU.

Proposal Category

The SPring-8 proposal system is rather complex, but a simple classification is given in Table 4-1.

General Proposal:

Most proposals are general. General proposals are reviewed and selected on the basis of five criteria: scientific and technological justification, necessity of SPring-8 as a tool, social and ethical justification, technical feasibility, and safety.

Long-term Proposal:

Long-term proposals are for research projects that require a longer period (three years at the longest), aiming to realize the potential of SPring-8 for scientifically outstanding or pioneering studies, or industrially innovative research. The beamtime per research term (six months) is 16 % of the total user beamtime at the longest. The project leader must receive an interim review after its third research term (one year and six months).

Urgent Proposal:

Urgent proposals are for extraordinarily important projects that require an immediate experiment.

Time-Designated Proposal:

Time-designated proposals are only for proprietary research and are always received on their submission. The project leader can designate the dates of his/her experiment at an extra charge.

Budding Researchers Support Proposal:

Budding researchers support proposals are open to Ph.D students who conduct creative research.

Non-Proprietary Grant-Aid Proposal:

Non-proprietary grant-aid proposals are for research projects that have already been funded after an independent, scientific or technological review process.

Priority Research Proposal:

SPring-8 sets up the priority research proposals in order to enhance research productivity. The proposals consist of priority field and power user proposals.

For the priority field proposals, nanotechnology, industrial application, medical bio trial use and medical bio EX are designated as priority fields, as of March 2008. The medical bio EX program focuses on major diseases and develops their diagnostic and treatment methods.

The power user proposals are for non-proprietary research performed by power users. SPring-8 designates or selects power users to produce outstanding results in leading synchrotron radiation research fields. The power users can use 20 % of the total user beamtime at maximum, and their designated period is five years. They must receive an interim review at the end of their third year.

The statistics of proposals are given in the following tables; Table 4-2: proposals for public use, Table 4-3: nanotechnology-related research proposals, Table 4-4: trial use proposals, Table 4-5: medical bio trial use, Table 4-6: the program for strategic use of advanced large-scale research facilities, Table 4-7: the protein 500 subprogram under the protein 3000 project, Table 4-8: long-term proposals, Tables 4-9-1 and 4-9-2: power user proposals, Tables 4-10-1 and 4-10-2: strategy proposals, Table 4-11: budding researchers support proposals, and Table 4-12: industrial application proposals.

Figure 4-1 shows the average number of selected proposals, Fig. 4-2 the selected ratio for each beamline, and Fig. 4-3 the average of scheduled shifts (1 shift = 8h) per proposal.

Table 4-1 Proposal category

General Proposal		
Long-term Proposal		
Urgent Proposal		
Time-Designated Proposal		
Budding Researchers Support Proposal		
Non-Proprietary Grant-Aid Proposal		
Priority Research Proposals	Priority Field	Nanotechnology Support Proposal
		Industrial Application Proposal
		Medical Bio Trial Use Proposal
		Medical Bio EX Proposal
	Power User	Power User Proposal

Table 4-2 Number of submitted (Sub.) / selected (Sel.) / performed (Done) proposals for public use. The column “non-subm” is for the long-term proposals and power user proposals running on the second term or more. P3K are not included.

Research Term	1997B			1998A				1999A			1999B			2000A			2000B		
	Subm.	Sel.	Done	Subm.	Sel.	non-subm	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done
BL01B1	23	16	15	43	27	0	27	47	34	34	66	23	23	53	46	46	54	33	33
BL02B1	34	17	16	32	28	0	28	34	23	22	36	15	15	33	17	16	28	14	14
BL02B2	0	0	0	0	0	0	0	0	0	0	6	4	4	29	24	24	47	29	29
BL04B1	15	15	10	29	28	0	28	34	22	22	28	17	17	27	22	22	30	18	18
BL04B2	0	0	0	0	0	0	0	0	0	0	7	6	6	21	20	20	25	17	17
BL08W	5	4	3	10	7	0	7	17	11	11	19	12	10	19	12	11	19	11	11
BL09XU	25	23	8	37	20	0	19	44	19	17	32	10	10	35	17	14	24	12	12
BL10XU	16	6	5	25	21	0	21	37	27	27	38	19	19	26	22	13	38	20	17
BL13XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL14B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL19B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL20B2	0	0	0	0	0	0	0	0	0	0	11	9	9	24	20	20	36	26	25
BL20XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL25SU	12	11	0	6	6	8	14	20	12	12	24	15	15	27	18	18	31	17	17
BL27SU	3	2	1	6	5	1	6	15	9	9	14	10	10	12	12	12	13	12	12
BL28B2	0	0	0	0	0	0	0	0	0	0	1	1	1	12	11	11	18	14	14
BL35XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL37XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL38B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL39XU	16	13	12	25	19	0	19	36	20	20	31	17	17	39	21	21	41	15	15
BL40B2	0	0	0	0	0	0	0	0	0	0	13	10	10	29	28	28	51	47	41
BL40XU	0	0	0	0	0	0	0	0	0	0	0	0	0	13	10	10	11	11	11
BL41XU	36	22	20	60	39	0	39	82	65	64	70	53	52	56	47	45	71	50	47
BL43IR	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	20	18	18
BL46XU	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	3	3	3
BL47XU	1	0	0	7	7	0	7	13	10	9	8	5	4	7	7	7	16	8	8
any	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
multi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub total	188	129	90	280	207	9	215	380	253	248	404	226	222	475	367	350	576	375	362
Public Beam line																			
Public use at RIKEN BL/Contract BL																			
BL11XU	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	10	5	5
BL14B1	0	0	0	4	4	0	3	9	8	6	6	6	4	5	5	5	6	5	5
BL15XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL17SU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL19LXU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL22XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL23SU	0	0	0	2	2	0	0	2	2	2	4	2	2	4	4	3	1	1	1
BL26B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL29XU	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
BL44B2	0	0	0	10	9	0	9	4	3	3	6	4	4	1	1	1	3	1	1
BL45XU	10	5	4	9	7	0	7	22	13	13	15	10	10	6	6	6	10	9	9
Sub total	10	5	4	25	22	0	19	37	26	26	31	22	20	16	16	15	30	21	21
SUM all	198	134	94	305	229	9	234	417	279	274	435	248	242	491	383	365	606	396	383

Research Term	2001A				2001B				2002A				2002B				2003A				
	Beamline	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done
Public Beamline	BL01B1	45	37	0	37	37	29	0	29	36	30	0	29	52	24	0	23	44	36	0	36
	BL02B1	21	18	0	17	32	13	0	13	36	21	0	20	37	14	0	14	16	8	10	18
	BL02B2	45	33	0	33	51	34	0	34	51	39	0	38	50	34	0	34	49	38	1	38
	BL04B1	30	24	1	25	22	19	1	20	22	19	0	13	25	18	0	18	22	17	0	17
	BL04B2	20	18	1	19	37	22	1	23	35	27	1	25	35	19	1	17	33	21	1	22
	BL08W	20	17	0	15	25	18	0	18	22	17	0	17	12	12	1	13	13	11	1	12
	BL09XU	24	17	1	18	21	11	1	12	22	15	1	15	17	10	1	11	22	13	1	14
	BL10XU	29	25	0	25	26	18	1	19	26	25	1	25	33	19	1	20	27	17	1	17
	BL13XU	0	0	0	0	5	5	0	5	13	12	0	11	24	14	0	14	27	20	0	19
	BL14B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BL19B2	0	0	0	0	13	8	0	8	68	43	0	40	99	43	0	42	92	38	0	36
	BL20B2	40	27	0	26	48	33	0	33	39	31	0	30	36	27	0	27	26	23	0	23
	BL20XU	0	0	0	0	15	12	0	12	12	11	0	11	8	8	0	8	13	12	0	12
	BL25SU	27	21	0	21	28	19	0	18	27	19	1	19	38	17	1	18	33	19	1	20
	BL27SU	24	17	0	17	28	19	0	19	30	21	0	20	25	19	0	19	25	22	0	22
	BL28B2	11	11	0	11	18	15	0	14	22	18	1	18	25	16	1	17	28	22	1	23
	BL35XU	0	0	0	0	6	5	1	6	13	10	1	11	18	9	1	10	18	12	1	13
	BL37XU	0	0	0	0	0	0	0	0	1	1	0	1	20	13	1	9	26	23	1	24
	BL38B1	0	0	0	0	16	16	0	16	15	15	0	15	12	9	0	9	9	8	0	8
	BL39XU	31	18	1	19	42	21	1	22	37	20	1	21	23	12	0	12	20	14	0	14
	BL40B2	59	58	0	57	50	43	0	43	46	41	0	40	44	27	0	27	49	36	0	35
	BL40XU	13	11	0	11	17	12	0	12	21	18	0	18	20	18	0	18	17	16	0	16
	BL41XU	67	63	0	61	50	47	0	47	71	67	0	60	42	27	0	27	58	56	0	54
	BL43IR	30	25	0	25	24	24	0	21	23	22	0	0	21	18	0	18	20	20	0	20
	BL46XU	8	5	0	5	7	4	0	4	5	4	0	4	7	5	0	5	7	5	0	5
	BL47XU	10	8	0	8	9	9	0	9	12	11	0	10	12	12	0	12	13	11	0	10
	any	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
multi	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Sub total	554	453	4	450	627	456	6	457	706	557	7	511	735	444	8	442	707	518	19	528	

Public use at RIKEN BL/Contract BL	BL11XU	5	5	0	5	4	4	0	4	6	6	0	5	1	1	0	1	5	3	0	3
	BL14B1	6	4	0	4	7	6	0	6	3	3	0	3	6	5	0	5	4	4	0	3
	BL15XU	0	0	0	0	0	0	0	0	0	0	0	0	9	7	0	7	9	8	0	8
	BL17SU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BL19LXU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	3
	BL22XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BL23SU	0	0	0	0	5	5	0	5	7	6	0	6	7	5	0	5	5	4	0	4
	BL26B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BL29XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
	BL44B2	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	1	3	3	0	2
	BL45XU	14	14	0	14	18	15	0	15	20	19	0	19	21	10	0	10	13	10	0	10
	Sub total	26	24	0	24	35	31	0	31	37	35	0	34	45	29	0	29	43	36	0	34

SUM all	580	477	4	474	662	487	6	488	743	592	7	545	780	473	8	471	750	554	19	562
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Research Term	2003B				2004A				2004B				2005A				2005B			
	Beamline	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.
BL01B1	64	31	0	30	46	31	0	30	71	31	0	31	64	37	0	37	87	34	1	35
BL02B1	23	12	1	13	9	8	8	16	22	14	1	15	9	7	5	12	14	11	1	12
BL02B2	41	32	2	32	40	34	2	36	47	37	2	39	54	39	2	41	53	42	1	43
BL04B1	19	15	0	15	19	17	0	17	27	18	0	18	20	12	5	17	30	17	0	17
BL04B2	38	20	0	19	33	21	0	21	41	21	0	21	38	20	0	20	30	22	0	22
BL08W	13	8	2	10	15	8	2	9	18	9	2	10	15	8	1	9	19	12	1	13
BL09XU	17	11	1	12	14	10	2	12	14	9	2	11	6	6	2	8	12	9	2	11
BL10XU	27	17	2	18	30	19	2	21	27	17	2	19	16	11	5	16	22	16	2	18
BL13XU	29	19	0	19	30	18	0	17	31	17	0	17	42	22	1	23	45	27	0	27
BL14B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL19B2	62	35	0	32	56	36	0	36	60	36	0	36	65	37	2	39	62	51	0	51
BL20B2	42	22	0	22	37	24	0	24	29	19	1	20	28	16	1	17	33	15	1	15
BL20XU	16	11	0	10	13	13	0	13	25	14	0	14	19	14	0	14	25	15	0	15
BL25SU	32	16	1	17	27	16	1	17	53	22	0	20	46	18	0	18	53	19	0	19
BL27SU	31	18	0	18	25	19	0	19	33	14	0	14	28	13	4	17	32	18	0	18
BL28B2	26	16	0	16	25	16	0	16	23	15	0	15	25	18	0	18	27	18	0	18
BL35XU	23	13	0	13	12	8	0	8	14	12	0	11	17	12	0	12	17	15	0	15
BL37XU	28	21	0	21	25	23	0	23	27	18	0	17	32	18	0	18	33	23	0	23
BL38B1	17	11	0	11	12	8	0	8	25	24	0	24	26	17	0	17	15	11	0	11
BL39XU	22	14	0	14	22	16	0	16	18	12	0	12	19	14	0	14	26	18	0	18
BL40B2	69	43	0	37	53	34	0	34	44	21	0	20	48	27	2	27	61	31	0	31
BL40XU	23	21	1	21	25	18	1	19	22	13	1	14	25	15	1	16	33	13	1	14
BL41XU	76	32	1	32	41	29	1	29	45	23	1	23	50	27	1	28	40	27	1	28
BL43IR	20	16	0	16	16	16	0	16	21	15	0	15	16	14	0	14	16	14	0	14
BL46XU	13	7	0	7	10	8	0	8	17	9	0	9	21	8	0	7	20	16	1	17
BL47XU	16	10	0	10	16	11	0	11	18	10	0	10	38	11	1	12	43	27	1	27
any	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
multi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub total	787	471	11	465	651	461	19	476	772	450	12	455	767	441	33	471	848	521	13	532

Public Beamline

Public use at RIKEN BL/Contract BL

BL11XU	4	4	0	4	3	3	0	3	6	5	0	5	5	4	0	4	3	3	0	3
BL14B1	8	7	1	7	5	5	0	5	9	7	0	7	6	5	0	5	6	6	0	6
BL15XU	10	8	0	6	7	7	0	7	16	9	0	9	13	8	0	8	13	6	0	6
BL17SU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	3
BL19LXU	2	2	0	2	2	2	0	2	1	1	0	1	3	3	0	3	1	1	0	1
BL22XU	0	0	0	0	3	3	0	3	5	5	0	5	3	3	0	3	3	3	0	3
BL23SU	9	6	0	5	8	7	0	7	7	7	0	6	11	6	0	5	10	4	0	3
BL26B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
BL29XU	0	0	0	0	0	0	0	0	2	2	0	2	2	2	0	2	5	3	0	3
BL44B2	2	1	0	1	2	1	0	1	1	1	0	1	1	1	0	1	2	2	0	2
BL45XU	14	8	0	8	9	8	0	8	16	10	0	10	12	7	0	7	13	7	0	7
Sub total	49	36	1	33	39	36	0	36	63	47	0	46	56	39	0	38	61	39	0	38

SUM all	836	507	12	498	690	497	19	512	835	497	12	501	823	480	33	509	909	560	13	570
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Research Term	2006A				2006B				2007A				2007B			
	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done	Subm.	Sel.	non-subm.	Done
BL01B1	60	42	1	43	59	27	1	28	73	56	1	56	56	42	1	43
BL02B1	16	9	4	13	16	10	2	11	13	13	2	15	12	11	2	13
BL02B2	50	44	1	45	52	40	1	41	70	49	1	50	56	39	1	40
BL04B1	24	16	5	21	29	15	0	15	22	20	3	23	27	20	0	20
BL04B2	34	26	0	26	28	18	0	17	30	26	0	26	22	21	0	21
BL08W	18	14	1	15	12	8	1	9	19	12	1	13	13	11	1	12
BL09XU	11	10	2	12	12	8	1	9	16	13	1	14	13	9	2	11
BL10XU	22	18	2	20	16	15	1	16	28	23	2	25	20	17	1	18
BL13XU	42	31	0	31	38	22	0	21	60	31	0	31	37	22	0	22
BL14B2	0	0	0	0	0	0	0	0	0	0	0	0	58	58	0	58
BL19B2	63	46	0	46	52	38	0	38	72	45	0	45	67	44	0	44
BL20B2	29	22	2	23	24	14	2	16	41	29	1	30	28	25	2	27
BL20XU	26	21	1	22	30	19	1	20	40	30	1	30	34	24	1	25
BL25SU	48	24	0	24	47	14	0	14	76	24	0	24	61	22	0	22
BL27SU	28	23	1	24	21	16	0	16	44	23	2	25	28	21	0	21
BL28B2	29	18	0	18	28	18	0	18	25	24	0	24	23	22	0	22
BL35XU	24	18	0	18	25	15	0	15	27	20	0	20	27	18	0	18
BL37XU	37	32	0	32	33	20	0	19	39	28	0	27	49	27	0	27
BL38B1	19	15	0	15	17	16	0	16	49	48	0	46	58	54	0	53
BL39XU	24	18	0	18	27	12	1	13	37	20	1	21	25	16	1	17
BL40B2	64	47	1	47	56	35	1	36	79	51	2	53	69	37	2	38
BL40XU	29	19	0	19	28	19	0	19	35	26	0	26	31	22	0	22
BL41XU	49	30	1	31	39	24	0	24	59	54	1	55	69	57	1	58
BL43IR	19	19	0	19	16	15	0	15	21	21	0	21	25	22	0	21
BL46XU	23	22	0	22	26	20	0	19	36	27	0	27	25	23	0	22
BL47XU	47	31	1	32	43	17	1	18	70	33	1	34	54	24	1	25
any	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
multi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub total	835	615	23	636	774	475	13	483	1081	746	20	761	987	708	16	720

Public Beamline

Public use at RIKEN BL/Contract BL

BL11XU	2	2	0	2	2	2	0	2	0	0	0	0	0	0	0	0
BL14B1	2	2	0	2	2	2	0	2	0	0	0	0	0	0	0	0
BL15XU	7	4	0	4	9	5	0	5	0	0	0	0	0	0	0	0
BL17SU	8	6	0	6	10	5	0	5	8	8	0	7	9	7	0	7
BL19LXU	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
BL22XU	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
BL23SU	5	5	0	5	8	7	0	7	0	0	0	0	0	0	0	0
BL26B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL29XU	8	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0
BL44B2	2	2	0	2	1	1	0	1	2	2	0	2	2	2	0	2
BL45XU	11	9	0	9	11	8	0	8	14	11	0	11	15	10	0	10
Sub total	49	40	0	40	43	30	0	30	24	21	0	20	26	19	0	19

SUM all	884	655	23	676	817	505	13	513	1105	767	20	781	1013	727	16	739
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Table 4-3 Number of nanotechnology-related research proposals under the nanotechnology researchers network project of MEXT.

Research Term	2002B			2003A			2003B			2004A			2004B			2005A		
	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done
BL01B1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL02B1	1	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
BL02B2	22	14	14	19	12	12	14	8	8	10	8	8	12	9	9	12	10	10
BL04B2	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
BL08W	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL10XU	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
BL11XU	1	1	1	1	1	1	3	2	2	3	3	3	4	4	4	2	2	2
BL13XU	8	7	7	8	5	5	14	5	5	8	4	4	13	5	5	10	4	4
BL14B1	2	2	2	2	2	2	8	5	4	4	3	3	5	5	5	2	2	2
BL15XU	9	7	7	7	7	7	10	7	6	7	7	7	15	6	6	7	5	5
BL17SU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL19B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL20XU	1	1	1	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0
BL22XU	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
BL23SU	4	3	3	3	3	3	5	4	3	5	5	5	6	6	5	6	6	5
BL25SU	16	8	8	13	9	9	15	6	6	7	4	4	15	5	5	9	4	4
BL27SU	6	5	5	5	4	4	13	5	5	6	4	4	11	4	4	6	5	5
BL28B2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL29XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL37XU	6	4	1	10	8	8	11	6	6	7	4	4	3	2	2	8	6	6
BL38B1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL39XU	8	5	5	7	5	5	9	3	3	5	3	3	6	3	3	4	4	4
BL40B2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
BL43IR	0	0	0	1	0	0	2	0	0	1	0	0	0	0	0	0	0	0
BL46XU	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL47XU	5	3	3	4	2	2	4	3	3	9	5	5	8	5	5	6	4	4
Total	91	60	57	92	60	60	114	54	51	72	50	50	99	55	54	72	52	51

Research Term	2005B			2006A			2006B			2007A			2007B		
Beamline	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done
BL01B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL02B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL02B2	16	10	10	13	12	12	13	11	11	9	7	7	11	10	10
BL04B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL08W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL10XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL11XU	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0
BL13XU	12	5	5	6	5	5	8	4	4	16	8	8	9	6	6
BL14B1	3	3	3	2	2	2	2	2	2	0	0	0	0	0	0
BL15XU	11	4	4	7	4	4	9	5	5	0	0	0	0	0	0
BL17SU	1	1	1	5	3	3	5	2	2	0	0	0	0	0	0
BL19B2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL20XU	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL22XU	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0
BL23SU	8	4	3	5	5	5	8	7	7	0	0	0	0	0	0
BL25SU	13	3	3	12	6	6	13	3	3	21	6	6	16	6	6
BL27SU	9	2	2	5	2	2	3	3	3	9	8	8	9	6	6
BL28B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL29XU	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0
BL37XU	9	5	5	7	7	7	9	5	5	3	2	2	14	5	5
BL38B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL39XU	7	3	3	3	3	3	6	3	3	6	4	4	4	4	4
BL40B2	0	0	0	0	0	0	0	0	0	10	5	5	9	8	7
BL43IR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL46XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL47XU	9	3	3	7	6	6	14	5	5	12	9	9	9	6	6
Total	105	47	46	78	61	61	92	52	52	86	49	49	81	51	50

Table 4-4 Number of trial use program proposals. At 2001B and 2002A, these proposals were selected from general proposals

Research Term	2001B	2002A	2003A			2003B			2004A			2004B			2005A			2005B			
	designate	designate	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	
BL01B1	1	1	0	0	0	4	4	4	5	4	4	8	3	3	1	0	0	0	0	0	0
BL02B1	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
BL02B2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL09XU	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL13XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	0
BL19B2	2	14	17	14	14	37	17	15	30	18	18	35	15	15	18	16	16	3	3	3	3
BL20XU	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL28B2	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
BL37XU	0	0	0	0	0	0	0	0	2	2	2	1	0	0	0	0	0	0	0	0	0
BL40B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
BL46XU	0	0	0	0	0	5	3	3	5	5	5	4	3	3	2	2	2	0	0	0	0
BL47XU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1
Total	3	19	17	14	14	48	25	23	45	29	29	48	21	21	24	21	21	6	4	4	4

Table4-5 Medical bio trial use proposal

Research Term	2006A			2006B			2007A			2007B		
	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done
BL20B2	4	3	3	3	3	3	6	3	3	4	2	2
BL20XU	4	1	1	4	4	4	5	4	4	3	3	3
BL28B2	2	1	1	2	1	1	2	1	1	3	2	2
BL37XU	3	2	2	2	1	1	1	1	1	4	2	2
BL47XU	0	0	0	0	0	0	2	2	2	0	0	0
Total	13	7	7	11	9	9	16	11	11	14	9	9

Table 4-6 Number of the program for strategic use of advanced large-scale research facilities

Rresearch Term	2005B			2006A			2006B			2007A		
	BL	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.	Done	Subm.	Sel.
BL01B1	21	8	8	16	9	9	10	5	5	0	0	0
BL02B1	3	2	2	3	2	2	4	2	2	0	0	0
BL02B2	14	10	10	5	4	4	4	4	4	0	0	0
BL04B2	7	5	5	1	1	1	0	0	0	0	0	0
BL08W	1	0	0	1	1	1	0	0	0	0	0	0
BL09XU	1	1	1	1	1	1	1	1	1	0	0	0
BL10XU	5	4	4	3	2	2	0	0	0	0	0	0
BL13XU	15	7	7	9	6	6	4	4	4	0	0	0
BL17SU	1	1	1	1	1	1	2	2	2	0	0	0
BL19B2	39	36	36	37	27	27	27	24	24	5	5	5
BL20B2	5	4	4	3	2	2	4	2	2	0	0	0
BL20XU	6	5	5	4	4	4	6	5	5	0	0	0
BL25SU	7	4	4	5	5	5	5	3	3	0	0	0
BL26B2	1	1	1	0	0	0	0	0	0	0	0	0
BL27SU	4	2	2	3	2	2	2	2	2	0	0	0
BL28B2	2	2	2	4	1	1	4	3	3	0	0	0
BL37XU	6	3	3	4	2	2	4	2	2	0	0	0
BL39XU	7	7	7	4	3	3	4	2	2	0	0	0
BL40B2	11	6	6	12	7	7	5	5	5	0	0	0
BL40XU	8	5	5	7	5	5	6	5	5	0	0	0
BL41XU	1	1	1	1	1	1	0	0	0	0	0	0
BL43IR	5	5	5	1	1	1	3	2	2	0	0	0
BL46XU	6	6	6	10	9	9	12	11	10	3	3	3
BL47XU	14	10	9	11	7	7	10	4	4	0	0	0
Total	190	135	134	146	103	103	117	88	87	8	8	8

Table 4-7 Performed proposals for the protein 500 subprogram under the protein 3000 project of MEXT.

Research Term	2002B	2003A	2003B	2004A	2004B	2005A	2005B	2006A	2006B
BL38B1	18	34	24	27	26	28	28	27	19
BL40B2	21	18	10	11	7	0	0	0	0
BL41XU	30	20	17	19	21	23	22	21	18
Total	69	72	51	57	54	51	50	48	37

Table 4-8 Number of long-term proposals

Research Term	2000B	2001A	2001B	2002A	2002B	2003A	2003B	2004A	2004B	2005A	2005B	2006A	2006B	2007A	2007B
Submit	9	2	4	3	4	4	3	3	3	4	3	2	4	2	1
Select	3	1	1	1	1	1	2	1	0	1	0	2	2	2	0
Running proposals	3	4	5	6	7	8	7	7	7	6	9	8	8	8	11

Table 4-9-1 Power user proposals (2003A~2005B)

Designated Power Users (Leader)	Research Term	2003A	2003B	2004A	2004B	2005A	2005B
	beamline	shifts	shifts	shifts	shifts	shifts	shifts
K. Toriumi	BL02B1	0	51	54	48	48	42
Y. Kuroiwa	BL02B2	0	36	36	33	36	30
A. Koizumi	BL08W	0	24	27	24	48	42
M. Seto	BL09XU	0	42	54	48	54	42
Y. Tatsumi	BL10XU	0	0	15	24	24	21

Table 4-9-2 Power user proposals (2006A~2007B)

Designated Power Users (Leader)	Research Term	2006A	2006B	2007A	2007B
	beamline	shifts	shifts	shifts	shifts
Y. Ozawa	BL02B1	54	39	60	54
E. Nishibori	BL02B2	42	30	59	54
H. Sakurai	BL08W	54	39	60	54
M. Seto	BL09XU	54	39	60	54
K. Hirose	BL10XU	54	39	59	54

Table4-10-1 Strategy proposals (2004A~2005B)

Thema	Research Term	2004B	2005A	2005B
	Beamline	Shifts	Shifts	Shifts
Analysis of Nanocomposite Materials	BL19B2	9	12	0
	BL13XU	0	6	0
	BL40B2	24	6	0
	BL46XU	0	0	6
	BL47XU	0	12	6
Development of New Application Technology for Powder Diffraction Experiments	BL19B2	0	9	
	BL40B2	24	0	
X-ray pinpoint structural measurement	BL40XU	0	72	63

Table 4-10-2 Strategy proposals (2006A~2007B)

Theme	Research Term	2006A	2006B	2007A	2007B
	Beamline	Shifts	Shifts	Shifts	Shifts
Analysis of Nanocomposite Materials	BL19B2	6	6	6	6
	BL39XU	6	6	6	0
	BL40B2	6	0	0	0
	BL46XU	6	12	9	15
	BL47XU	12	18	9	12
Development of instrumentation technology for dynamical internal single molecular observations	BL40XU	0	0	15	15
Pinpoint structure measurement of the reactions in matters using synchrotron radiation	BL40XU	84	54	78	65

Table 4-11 Budding researchers support proposal

Research Term	2005A			2005B			2006A			2006B			2007A			2007B		
	Subm.	Sel	Done	Subm.	Sel	Done	Subm.	Sel	Done	Subm.	Sel	Done	Subm.	Sel	Done	Subm.	Sel	Done
BL01B1	6	0	0	5	2	2	2	2	2	4	1	1	6	5	5	8	5	5
BL02B1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
BL02B2	2	1	1	2	2	2	3	3	3	5	2	2	6	3	3	6	5	5
BL04B1	1	0	0	2	0	0	1	1	1	1	0	0	0	0	0	1	1	1
BL04B2	2	2	2	0	0	0	0	0	0	1	0	0	1	1	1	3	2	2
BL08W	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
BL10XU	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0
BL11XU	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL13XU	4	1	1	2	2	2	3	3	3	1	0	0	4	2	2	2	2	2
BL15XU	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL17SU	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
BL19B2	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
BL20B2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
BL20XU	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	3	0	0
BL23SU	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BL25SU	2	0	0	4	1	1	2	0	0	5	1	1	6	1	1	4	1	1
BL27SU	2	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1
BL28B2	3	3	3	3	2	2	2	1	1	1	0	0	1	1	1	0	0	0
BL29XU	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
BL35XU	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1
BL37XU	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	3	2	2
BL38B1	3	0	0	0	0	0	2	1	1	1	1	1	1	1	1	2	2	2
BL39XU	2	2	2	2	1	1	1	0	0	1	0	0	2	0	0	2	2	2
BL40B2	3	3	3	2	1	1	2	2	2	5	2	2	4	2	2	6	1	1
BL40XU	1	0	0	3	0	0	2	1	1	2	2	2	3	3	3	1	1	1
BL41XU	2	0	0	2	0	0	1	0	0	1	1	1	2	2	2	2	2	2
BL45XU	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	0	0
BL46XU	1	1	1	2	2	2	1	1	1	0	0	0	1	1	1	0	0	0
BL47XU	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	2
Total	40	18	18	32	15	15	28	18	18	32	13	12	46	25	25	49	30	30

Table 4-12 Industrial application proposal

Research Term	2007A			2007B		
	Beamline	Subm.	Sel	Done	Subm.	Sel
BL01B1	11	9	9	0	0	0
BL02B1	1	1	1	0	0	0
BL02B2	5	4	4	0	0	0
BL04B2	2	2	2	0	0	0
BL10XU	1	1	1	0	0	0
BL13XU	3	3	3	0	0	0
BL14B2	0	0	0	32	32	32
BL17SU	3	3	2	2	2	2
BL19B2	14	8	8	50	27	27
BL20B2	1	1	1	0	0	0
BL20XU	4	4	4	2	2	2
BL25SU	5	4	4	3	3	3
BL27SU	2	1	1	0	0	0
BL28B2	2	2	2	0	0	0
BL37XU	2	2	2	1	1	1
BL39XU	3	3	3	0	0	0
BL40B2	6	5	5	5	4	4
BL40XU	4	4	4	7	6	6
BL43IR	2	2	2	3	3	2
BL46XU	7	7	7	19	17	16
BL47XU	6	5	5	6	4	4
Total	84	71	70	130	101	99

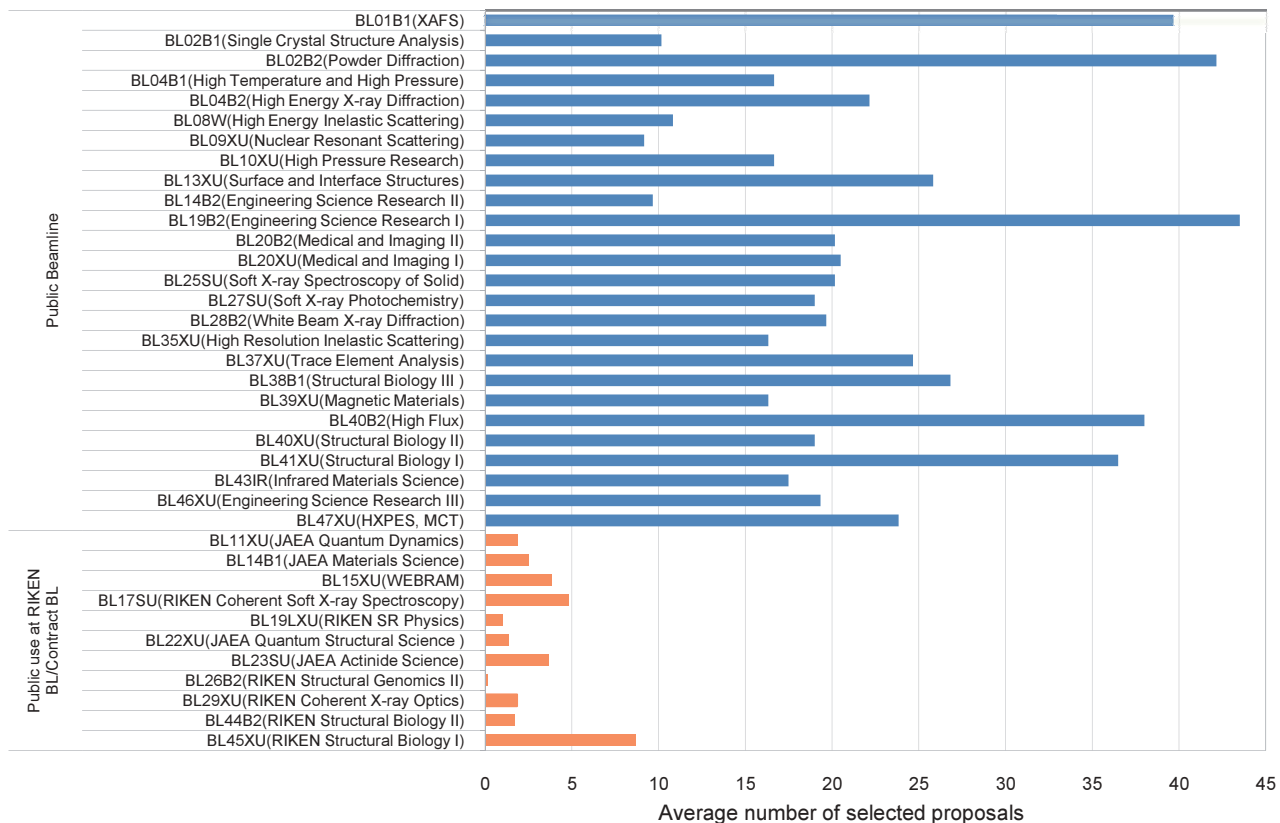


Figure 4-1 Average number of selected proposals (2005A-2007B).

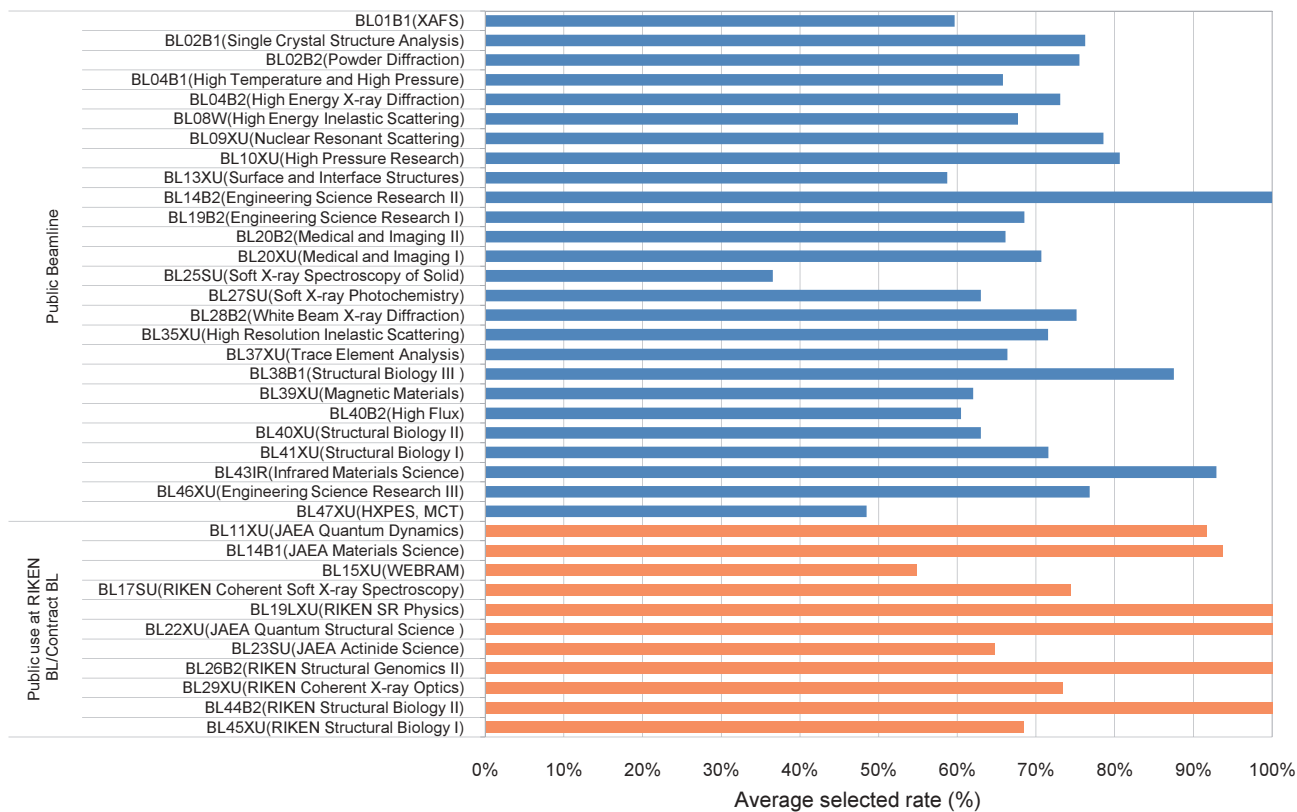


Figure 4-2 Selected ratio for each beamline (2005A-2007B)

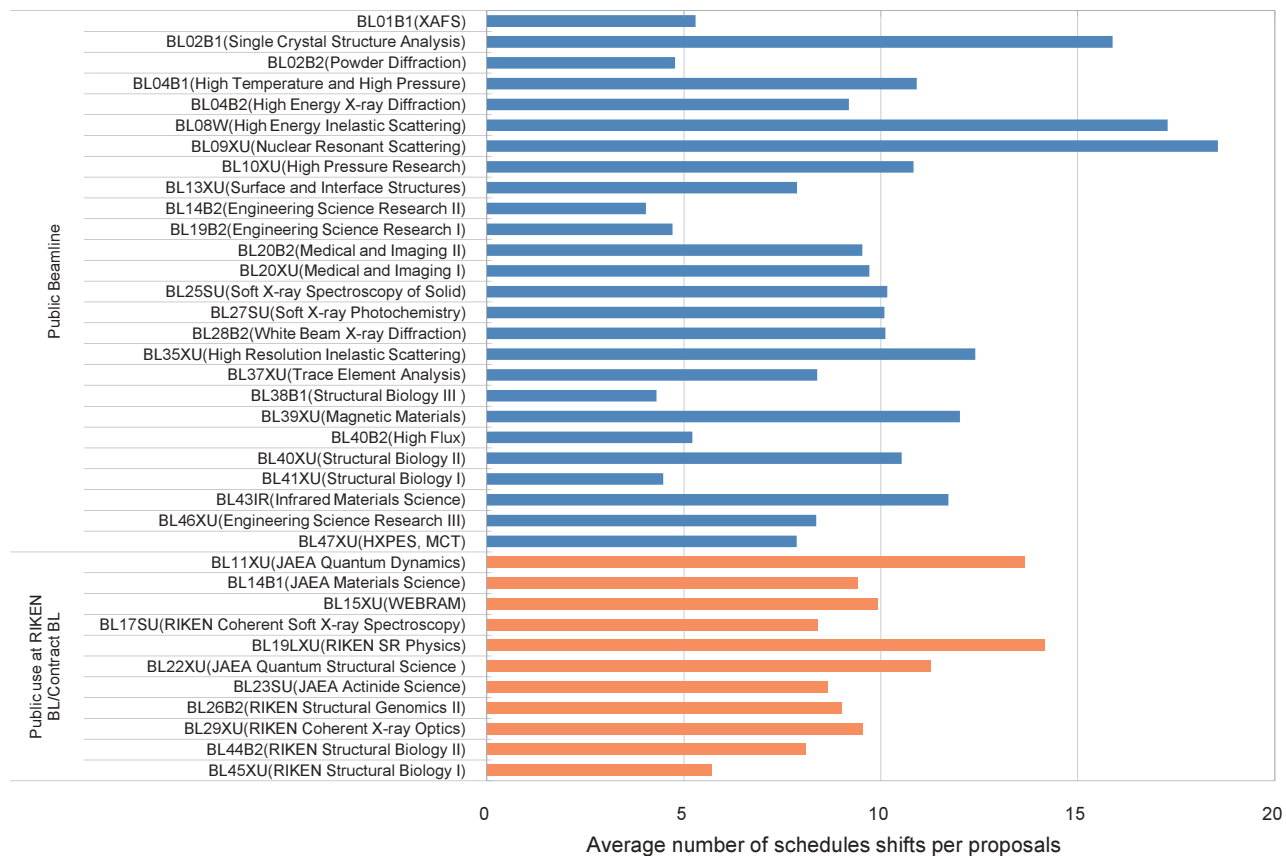


Figure 4-3 Average of scheduled shifts per proposal (2005A-2007B)