

*X-Ray Data Booklet Table 2-1. Storage ring synchrotron radiation sources both planned and operating (October 1999).*

<b>Location</b>	<b>Ring (Institution)</b>	<b>Energy (GeV)</b>	<b>Internet address</b>
<i>Australia</i>	Boomerang	3	—
<i>Brazil</i>			
Campinas	LNLS-1	1.35	—
	LNLS-2	2	—
<i>Canada</i>			
Saskatoon	CLS (Canadian Light Source)	2.5–2.9	cls.usask.ca/
<i>China (PRC)</i>			
Beijing	BEPC (Inst. High Energy Phys.)	1.5–2.8	www.friends-partners.org/~china/ins/IHEP/bsrf/bsrf.html
	BLS (Inst. High Energy Phys.)	2.2–2.5	—
Hefei	NSRL (Univ. Sci. Tech. China)	0.8	—
Shanghai	SSRF (Inst. Nucl. Res.)	3.5	—
<i>Denmark</i>			
Aarhus	ASTRID (ISA)	0.6	www.isa.au.dk/
	ASTRID II (ISA)	1.4	www.isa.au.dk/
<i>England</i>			
Daresbury	SRS (Daresbury)	2	srs.dl.ac.uk/index.htm
	DIAMOND (Daresbury/Appleton)	3.0	srs.dl.ac.uk/top/diamond.html
	SINBAD (Daresbury)	0.6	—
<i>France</i>			
Grenoble	ESRF	6	www.esrf.fr/
Orsay	DCI (LURE)	1.8	www.lure.u-psud.fr/
	SuperACO (LURE)	0.8	—
	SOLEIL	2.5–2.75	www.sol.cnrs-gif.fr/
<i>Germany</i>			
Berlin	BESSY I	0.8	www.bessy.de/
	BESSY II	1.7–1.9	www.bessy.de/BII/
Bonn	ELSA (Bonn Univ.)	1.5–3.5	www-elsa.physik.uni-bonn.de/elsahome.html
Dortmund	DELTA (Dortmund Univ.)	1.5	www.delta.uni-dortmund.de/home_e.html
Hamburg	DORIS III (HASYLAB/DESY)	4.5–5.3	www-hasylab.desy.de/
	PETRA II (HASYLAB/DESY)	7–14	www-hasylab.desy.de/
Karlsruhe	ANKA (FZK)	2.5	www.fzk.de/anka/english/welcome.html

**Table 2-1. Storage ring synchrotron radiation sources (continued).**

<b>Location</b>	<b>Ring (Institution)</b>	<b>Energy (GeV)</b>	<b>Internet address</b>
<i>India</i>			
Indore	INDUS-I (Ctr. Adv. Tech.)	0.45	<a href="http://www.ee.ualberta.ca/~naik/cataccel.html">www.ee.ualberta.ca/~naik/cataccel.html</a>
	INDUS-II (Ctr. Adv. Tech.)	2.5	<a href="http://www.ee.ualberta.ca/~naik/cataccel.html">www.ee.ualberta.ca/~naik/cataccel.html</a>
<i>Italy</i>			
Frascati	DAFNE	0.51	<a href="http://www.lnf.infn.it/acceleratori/">www.lnf.infn.it/acceleratori/</a>
Trieste	ELETTRA (Synch. Trieste)	1.5–2	<a href="http://waxa.elettra.trieste.it/ELETTRA.html">waxa.elettra.trieste.it/ELETTRA.html</a>
<i>Japan</i>			
Hiroshima	HISOR (Hiroshima Univ.)	0.7	<a href="http://www.hiroshima-u.ac.jp/Organization/src.html">www.hiroshima-u.ac.jp/Organization/src.html</a>
Ichihara	Nano-hana (Japan SOR Inc.)	1.5–2	<a href="http://www.ijnet.or.jp/NANO-HANA/en.html">www.ijnet.or.jp/NANO-HANA/en.html</a>
Kashiwa	VSX (Univ. of Tokyo–ISSP)	2–2.5	<a href="http://www.issp.u-tokyo.ac.jp/labs/sor/vsxs/index.html">www.issp.u-tokyo.ac.jp/labs/sor/vsxs/index.html</a>
Kusatsu	AURORA (Ritsumaiken Univ.)	0.6	<a href="http://www.ritsumeimei.ac.jp/se/d11/index-e.html">www.ritsumeimei.ac.jp/se/d11/index-e.html</a>
Kyoto	KSR (Kyoto University)	0.3	<a href="http://wwwal.kuicr.kyoto-u.ac.jp/www/Buttons-e.imagemap?112,64">wwwal.kuicr.kyoto-u.ac.jp/www/Buttons-e.imagemap?112,64</a>
Nishi Harima	SPring-8 (JASRI)	8	<a href="http://www.spring8.or.jp/">www.spring8.or.jp/</a>
	Subaru (Himeji Inst. Tech.)	1–1.5	<a href="http://www.lasti.himeji-tech.ac.jp/NS/Index.html">www.lasti.himeji-tech.ac.jp/NS/Index.html</a>
Okasaki	UVSOR (Inst. Mol. Science)	0.75	<a href="http://www.ims.ac.jp/about_ims/facilities.html">www.ims.ac.jp/about_ims/facilities.html</a>
	UVSOR-II (Inst. Mol. Science)	1.0	—
Sendai	TLS (Tohoku Univ.)	1.5	—
Tsukuba	TERAS (ElectroTech. Lab.)	0.8	<a href="http://www.etl.go.jp/etl/linac/e/">www.etl.go.jp/etl/linac/e/</a>
	NIJI II (ElectroTech. Lab.)	0.6	<a href="http://www.etl.go.jp/etl/linac/e/">www.etl.go.jp/etl/linac/e/</a>
	NIJI IV (ElectroTech. Lab.)	0.5	<a href="http://www.etl.go.jp/etl/linac/e/">www.etl.go.jp/etl/linac/e/</a>
	Photon Factory (KEK)	2.5–3	<a href="http://pfwww.kek.jp/">pfwww.kek.jp/</a>
	Accumulator Ring (KEK)	6	<a href="http://pfwww.kek.jp/">pfwww.kek.jp/</a>
<i>Korea</i>			
Pohang	Pohang Light Source	2	<a href="http://pal.postech.ac.kr/">pal.postech.ac.kr/</a>
Seoul	CESS (Seoul Nat. Univ.)	0.1	—
<i>Middle East</i>	SESAME	1	<a href="http://www.weizmann.ac.il/home/sesame/">www.weizmann.ac.il/home/sesame/</a>
<i>Russia</i>			
Moscow	Siberia I (Kurchatov Inst.)	0.45	—
	Siberia II (Kurchatov Inst.)	2.5	—
Dubna	DELSY (JINR)	0.6–1.2	—
Novosibirsk	VEPP-2M (BINP)	0.7	<a href="http://ssrc.inp.nsk.su/">ssrc.inp.nsk.su/</a>
	VEPP-3 (BINP)	2.2	<a href="http://ssrc.inp.nsk.su/">ssrc.inp.nsk.su/</a>
	VEPP-4 (BINP)	5–7	<a href="http://ssrc.inp.nsk.su/english/load.pl?right=vepp.html">ssrc.inp.nsk.su/english/load.pl?right=vepp.html</a>
	Siberia-SM (BINP)	0.8	<a href="http://ssrc.inp.nsk.su/">ssrc.inp.nsk.su/</a>
Zelenograd	TNK (F.V. Lukin Inst.)	1.2–1.6	—
<i>Singapore</i>	Helios2 (Univ. Singapore)	0.7	<a href="http://www.nus.edu.sg/NUSinfo/SSLS/">www.nus.edu.sg/NUSinfo/SSLS/</a>

**Table 2-1. Storage ring synchrotron radiation sources (continued).**

<b>Location</b>	<b>Ring (Institution)</b>	<b>Energy (GeV)</b>	<b>Internet address</b>
<i>Spain</i>			
Barcelona	Catalonia SR Lab	2.5–3	<a href="http://www.lis.ifae.es/report/report.html">www.lis.ifae.es/report/report.html</a>
<i>Sweden</i>			
Lund	MAX I (Univ. Lund)	0.55	<a href="http://www.maxlab.lu.se/welcome.html">www.maxlab.lu.se/welcome.html</a>
	MAX II (Univ. Lund)	1.5	<a href="http://www.maxlab.lu.se/welcome.html">www.maxlab.lu.se/welcome.html</a>
	New Ring (Univ. Lund)	0.7	—
<i>Switzerland</i>			
Villigen	SLS (Paul Scherrer Inst.)	2.4	<a href="http://www1.psi.ch/www_sls_hn/">www1.psi.ch/www_sls_hn/</a>
<i>Taiwan (ROC)</i>			
Hsinchu	SRRC (Synch. Rad. Res. Ctr.)	1.3–1.5	<a href="http://www.srrc.gov.tw/en/main2000.htm">www.srrc.gov.tw/en/main2000.htm</a>
<i>Thailand</i>			
Nakhon Ratchasima	SIAM (Suranaree Univ. Tech.)	1.0	—
<i>Ukraine</i>			
Kharkov	Pulse Stretcher/Synch. Rad.	0.75–2	—
Kiev	ISI-800 (UNSC)	0.7–1.0	—
<i>USA</i>			
Argonne, IL	APS (Argonne Nat. Lab.)	7	<a href="http://epics.aps.anl.gov/welcome.html">epics.aps.anl.gov/welcome.html</a>
Baton Rouge, LA	CAMD (Louisiana State Univ.)	1.4	<a href="http://www.camd.lsu.edu/">www.camd.lsu.edu/</a>
Berkeley, CA	ALS (Lawrence Berkeley Nat. Lab.)	1.5–1.9	<a href="http://www-als.lbl.gov/als/">www-als.lbl.gov/als/</a>
Durham, NC	FELL (Duke Univ.)	1–1.3	<a href="http://monk.fel.duke.edu/">monk.fel.duke.edu/</a>
Gaithersburg, MD	SURF III (NIST)	0.4	<a href="http://physics.nist.gov/MajResFac/SURF/SURF.html">physics.nist.gov/MajResFac/SURF/SURF.html</a>
Ithaca, NY	CESR (CHESS/Cornell Univ.)	5.5	<a href="http://www.chess.cornell.edu/">www.chess.cornell.edu/</a>
Raleigh, NC	NC STAR (N. Carolina State Univ.)	2.5	—
Stanford, CA	SPEAR2 (SSRL/SLAC)	3	<a href="http://www-ssrl.slac.stanford.edu/welcome.html">www-ssrl.slac.stanford.edu/welcome.html</a>
	SPEAR3 (SSRL/SLAC)	3	<a href="http://www-ssrl.slac.stanford.edu/welcome.html">www-ssrl.slac.stanford.edu/welcome.html</a>
Stoughton, WI	Aladdin (Synch. Rad. Ctr.)	0.8–1	<a href="http://www.src.wisc.edu/">www.src.wisc.edu/</a>
Upton, NY	NSLS I (Brookhaven Nat. Lab.)	0.80	<a href="http://www.nsls.bnl.gov/">www.nsls.bnl.gov/</a>
	NSLS II (Brookhaven Nat. Lab.)	2.5–2.8	<a href="http://www.nsls.bnl.gov/">www.nsls.bnl.gov/</a>