

Accelerators of the World



Sorted by Location

Europe

AGOR	Accelerateur Groningen-ORsay, KVI Groningen, Netherlands
ANKA	Ängströmquelle Karlsruhe, Karlsruhe, Germany (Forschungsgruppe Synchrotronstrahlung (FGS))
ASTRID	Aarhus Storage Ring in Denmark, ISA, Aarhus, Denmark
BESSY	Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung, Germany (BESSY I status, BESSY II status)
BINP	Budker Institute for Nuclear Physics, Novosibirsk, Russian Federation (VEPP-2M collider, VEPP-4M collider (VEPP-4M collider (status))
CERN	Centre Europeen de Recherche Nucleaire, Geneva, Suisse (LEP & SPS Status, LHC, CLIC, PS-Division, SL-Division)
COSY	Cooler Synchrotron, IKP, FZ Jülich, Germany (COSY Status)
CYCLONE	Cyclotron of Louvain la Neuve, Louvain-la-Neuve, Belgium
DELTA	Dortmund Electron Test Accelerator, U of Dortmund, Germany (DELTA Status)
DESY	Deutsches Elektronen Synchrotron, Hamburg, Germany (HERA, PETRA and DORIS status, TESLA)
ELBE	ELectron source with high Brilliance and low Emittance, FZ Rossendorf, Germany
ELETTRA	Trieste, Italy (ELETTRA status)
ELSA	Electron Stretcher Accelerator, Bonn University, Germany (ELSA status)
ESRF	European Synchrotron Radiation Facility, Grenoble, France (ESRF status)
GANIL	Grand Accélérateur National d'Ions Lourds, Caen, France
GSI	Gesellschaft für Schwerionenforschung, Darmstadt, Germany
IHEP	Institute for High Energy Physics, Protvino, Moscow region, Russian Federation
INFN	Istituto Nazionale di Fisica Nucleare, Italy, LNF - Laboratori Nazionali di Frascati (DAFNE, other accelerators), LNL - Laboratori Nazionali di Legnaro (Tandem, CN Van de Graaff, AN 2000 Van de Graaff), LNS - Laboratori Nazionali del Sud, Catania, (Superconducting Collider & Van de Graaff Tandem)
ISIS	Rutherford Appleton Laboratory, Oxford, U.K. (ISIS Status)
ISL	IonenStrahlLabor am HMI, Berlin, Germany
JINR	Joint Institute for Nuclear Research, Dubna, Russian Federation (U-200, U-400, U-400M, Storage Ring, LHE Synchrophasotron / Nuclotron)
JYFL	Jyväskylän Yliopiston Fysiikan Laitos, Jyväskylä, Finland
КТН	Kungl Tekniska Högskola (Royal Institute of Technology), Stockholm, Sweden (Alfén Lab electron accelerators)



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LMU/TUM	Accelerator of LMU and TU Muenchen, Munich, Germany
LURE	Laboratoire pour l'Utilisation du Rayonnement Electromagnétique, Orsay, France (DCI, Super-ACO status, CLIO)
MAMI	Mainzer Microtron, Mainz U, Germany
MAX-Lab	Lund University, Sweden
MSL	Manne Siegbahn Laboratory, Stockholm, Sweden (CRYRING)
NIKHEF	Nationaal Instituut voor Kernfysica en Hoge-Energie Fysica, Amsterdam, Netherlands (AmPS closed)
PSI	Paul Scherrer Institut, Villigen, Switzerland (PSI status, SLS under construction)
S-DALINAC	Darmstadt University of Technology, Germany (S-DALINAC status)
SRS	Synchrotron Radiation Source, Daresbury Laboratory, Daresbury, U.K. (SRS Status)

- TSL The Svedberg Laboratory, Uppsala University, Sweden (CELSIUS)
- TSR Heavy-Ion Test Storage Ring, Heidelberg, Germany

North America

88" Cvcl	88-Inch Cyclotron, Lawrence Berkeley Laboratory (LBL), Berkeley, CA	
ALS	Advanced Light Source, Lawrence Berkeley Laboratory (LBL), Berkeley, CA (ALS Status)	
ANL	Argonne National Laboratory, Chicago, IL (Advanced Photon Source APS [status], Intense Pulsed Neutron Source IPNS [status], Argonne Tandem Linac Accelerator System ATLAS)	
BNL	Brookhaven National Laboratory, Upton, NY (AGS, ATF, NSLS, RHIC)	
CAMD	Center for Advanced Microstructures and Devices	
CHESS	Cornell High Energy Synchrotron Source, Cornell University, Ithaca, NY	
CLS	Canadian Light Source, U of Saskatchewan, Saskatoon, Canada	
CESR	Cornell Electron-positron Storage Ring, Cornell University, Ithaca, NY (CESR Status)	
FNAL	Fermi National Accelerator Laboratory , Batavia, IL (Tevatron)	
IAC	Idaho accelerator center, Pocatello, Idaho	
IUCF	Indiana University Cyclotron Facility, Bloomington, Indiana	
JLab	aka TJNAF, Thomas Jefferson National Accelerator Facility (formerly known as CEBAF), Newport News, VA	
LAC	Louisiana Accelerator Center, U of Louisiana at Lafayette, Louisiana	
LANE	Los Alamos National Laboratory	
MIT-Bates	Bates Linear Accelerator Center, Massachusetts Institute of Technology (MIT)	
NSCL	National Superconducting Cyclotron Laboratory, Michigan State University	
ORNL	Oak Ridge National Laboratory (EN Tandem Accelerator), Oak Ridge, Tennessee	
SBSL	Stony Brook Superconducting Linac, State University of New York (SUNY)	
SLAC	Stanford Linear Accelerator Center (Linac, NLC - Next Linear Collider, PEP - Positron Electron Project (finished), PEP-II - asymmetric B Factory (in commissioning), SLC - SLAC Linear electron positron Collider, SPEAR - Stanford Positron Electron Asymmetric Ring (actually SPEAR-II, see SSRL), SSRL - Stanford Synchrotron Radiation Laboratory)	1
SNS	Spallation Neutron Source, Oak Ridge, Tennessee	
SRC	Synchrotron Radiation Center, U of Wisconsin - Madison (Aladdin Status)	

- SURF II Synchrotron Ultraviolet Radiation Facility, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland
- TASCC Tandem Accelerator Superconducting Cyclotron (Canada) (closed!)
- TRIUME TRI-University Meson Facility / National Meson Research Facility, Vancouver, BC (Canada)

South America

- LNLS Laboratorio Nacional de Luz Sincrotron, Campinas SP, Brazil
- TANDAR Tandem Accelerator, Buenos Aires, Argentina

Asia

BEPC	Beijing Electron-Positron Collider, Beijing, China
KEK	National Laboratory for High Energy Physics ("Koh-Ene-Ken"), Tsukuba, Japan (KEK-B, PF, JLC)

- NSC Nuclear Science Centre, New Delhi, India (15 UD Pelletron Accelerator)
- PLS Pohang Light Source, Pohang, Korea
- RIKEN Institute of Physical and Chemical Research ("Rikagaku Kenkyusho"), Hirosawa, Wako, Japan
- SESAME Synchrotron-light for Experimental Science and Applications in the Middle East, Jordan (under construction)
- SPring-8 Super Photon ring 8 GeV, Japan
- SRRC Synchrotron Radiation Research Center, Hsinchu, Taiwan (SRRC Status)
- UVSOR Ultraviolet Synchrotron Orbital Radiation Facility, Japan
- VECC Variable Energy Cyclotron, Calcutta, India

Africa

NAC National Accelerator Centre, Cape Town, South Africa

Sorted by Accelerator Type

Electrons

Stretcher Ring/Continuous Beam facilities

ELSA (Bonn U), JLab, MAMI (Mainz U), MAX-Lab, MIT-Bates, PSR (SAL), S-DALINAC (TH Darmstadt), SLAC



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Synchrotron Light Sources

ANKA (FZK), ALS (LBL), APS (ANL), ASTRID (ISA), BESSY, CAMD (LSU), CHESS (Cornell Wilson Lab), CLS (U of Saskatchewan), DELTA (U of Dortmund), ELBE (FZ Rossendorf), Elettra, ELSA (Bonn U), ESRF, HASYLAB (DESY), LURE, MAX-Lab, LNLS, NSLS (BNL), PF (KEK), UVSOR (IMS), PLS, S-DALINAC (TH Darmstadt), SESAME, SLS (PSI), SPEAR (SSRL, SLAC), SPring-8, SRC (U of Wisconsin), SRRC, SRS (Daresbury), SURF II (NIST)

Other

Alfén Lab (KTH), IAC

Protons

88" Cyclotron (LBL), CELSIUS (TSL), COSY (FZ Jülich), IPNS (ANL), ISL (HMI), ISIS, IUCF, LHC (CERN), NAC, PS (CERN), PSI, SPS (CERN)

Light and Heavy lons

88" Cyclotron (LBL), AGOR, ASTRID (ISA), ATLAS (ANL), CELSIUS (TSL), CRYRING (MSL), CYCLONE, EN Tandem (ORNL), GANIL, GSI, ISL (HMI), IUCF, JYFL, LAC, LHC (CERN), LHE Synchrophasotron / Nuclotron (JINR), LMU/TUM, LNL (INFN), LNS (INFN), NAC, NSC, PSI, RHIC (BNL), SBSL, SNS, SPS (CERN), TANDAR, TSR, U-2007 U-4007U-400M/Storage Ring (JINR), VECC

Collider

BEPC, CESR, DAFNE (LNF), HERA (DESY), LEP (CERN), LHC (CERN), PEP / PEP-II (SLAC), SLC (SLAC), KEK-B (KEK), TESLA (DESY), Tevatron (FNAL), VEPP-2M, VEPP-4M (BINP)







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