

Test beams\* in the world, status May 2019

Laboratory	Number of beam lines	Particles	Energy range	Diagnostics etc.	Availability	Information, Contacts & comments
<b>CERN / PS (CH)</b>	2	e, h, $\mu$ (sec)	0.5 - 10 GeV/c	Threshold Cherenkov, scintillators, MWPCs, delay wire chambers, scintillators, magnet, movable platform	9 months per year, continuous except winter shutdown	Contact beam time request and scheduling: <a href="mailto:Sps.Coordinator@cern.ch">Sps.Coordinator@cern.ch</a> <a href="http://sps-schedule.web.cern.ch/sps-schedule/">http://sps-schedule.web.cern.ch/sps-schedule/</a>
<b>CERN / SPS (CH)</b>	4	p (prim.) e, h, $\mu$ (sec) e, h (tert.) Pb ions (prim) other ion species (out of fragmented primary Pb ions)	400 GeV/c 10 - <400 GeV/c 10 - 200 GeV/c 20 - 400 GeV/c proton equivalent (z=1)	Delay wire chambers, filament scanners, XEMC calorimeters, Threshold & CEDAR, hodoscopes, magnet, movable platform	Duty cycle depends on PS / SPS / LHC operation mode and is typical * PS -1-3% * SPS: 20-40% No PS and SPS test beams in 2019 and 2020	Contact beam lines: <a href="mailto:sba-physicists@cern.ch">sba-physicists@cern.ch</a> <a href="http://sba.web.cern.ch/sba/">http://sba.web.cern.ch/sba/</a>
<b>CERN / CLEAR (CH)</b>	1	e-	50-250 MeV/c	Irradiation stand with moveable stages, plasma lens stand, 12GHz RF stand, THz-RF stand	8 - 9 months per year	Contact: <a href="mailto:CLEAR-Info@cern.ch">CLEAR-Info@cern.ch</a> <a href="https://clear.web.cern.ch">https://clear.web.cern.ch</a>
<b>DAFNE BTF Frascati, (IT)</b>	2	e+/e- both primaries and secondaries	25-750 MeV/c Rep Rate 50Hz 1-40 ns 1 to $10^{10}$ p/pulse	Calorimeter, silicon pixel, remote trolley, gas system, HV, trigger	depending on DAFNE schedule, from 25 to 35 weeks/year Not available in the first half of 2018	Contact: <a href="mailto:bt@lnf.infn.it">bt@lnf.infn.it</a> , <a href="mailto:paolo.valente@lnf.infn.it">paolo.valente@lnf.infn.it</a> info at: <a href="http://www.lnf.infn.it/acceleratori/btf">http://www.lnf.infn.it/acceleratori/btf</a> <a href="http://www.lnf.infn.it/acceleratori/padme">http://www.lnf.infn.it/acceleratori/padme</a>
<b>DESY (D)</b>	3	e+, e- (sec) e- (prim., planned for 201X)	1 - 6 GeV/c 6.3 GeV/c	Trigger systems and beam telescopes, magnet (-IT)	11 months per year, Duty cycle - 50%	Contact: <a href="mailto:Testbeam-Coor@desy.de">Testbeam-Coor@desy.de</a> <a href="http://testbeam.desy.de">http://testbeam.desy.de</a>
<b>ELPH (Sendai) (JP)</b>	2	photons (tagged) e+, e- (conv.)	0.7-1.2 GeV/c 0.1-1.0 GeV/c beam rate < 500kHz (typical rate: 2kHz)		2 months/year	Contact: <a href="mailto:toshimi.suda@ins.tohoku.ac.jp">Toshimi Suda (suda@ins.tohoku.ac.jp)</a> info: <a href="http://hayabusa1.lns.tohoku.ac.jp/en/users/hid-a5">http://hayabusa1.lns.tohoku.ac.jp/en/users/hid-a5</a>
<b>FERMILAB/FTBF (US)</b>	2	p (prim.) e, h, $\mu$ (sec) h (tert.)	120 GeV/c 1-66 GeV/c 200-500 MeV/c	Cherenkov, TOF, pb-glass calorimeters, MWPC, Si Tracker, see website for more	24 hrs/day 6% duty cycle	Contact: <a href="mailto:FTBF_Co@fnal.gov">FTBF_Co@fnal.gov</a> <a href="http://ftbf.fnal.gov/">http://ftbf.fnal.gov/</a> more contacts: <a href="mailto:Mandy.Rominsky@fnal.gov">Mandy Rominsky (rominsky@fnal.gov)</a> <a href="mailto:Erik.Ramberg@fnal.gov">Erik Ramberg (ramberg@fnal.gov)</a>
<b>IHEP Beijing (CN)</b>	2	e (prim.) e (sec) p, $\pi$ (sec)	1.1 - 2.5 GeV/c 100 - 300 MeV/c 0.4 - 1.2 GeV/c	MWPC, TOF Cherenkov, CAMAC system, platform	Availability: 3 months per year, duty cycle depends on BEPCII operation mode	Contact: <a href="mailto:Huo Tao (hut@hep.ac.cn)">Huo Tao (hut@hep.ac.cn)</a>
<b>IHEP Protvino (RU)</b>	5	p (prim.), p, K, $\pi$ , $\mu$ , e (sec) C-12 (prim)	70 GeV/c 1-45 GeV/c 6-300 GeV/c	Cherenkov, TOF, MWPC	two months per year duty cycle (U-70 machine): 15-30%	Contact: <a href="mailto:Alexandre.Zaitsev@cern.ch">Alexandre Zaitsev (alexandre.zaitsev@cern.ch)</a>
<b>KEK / JPARC (JP)</b>						No dedicated lines for test beams Contact: <a href="mailto:Masaharu.Ieiri@kek.jp">Masaharu Ieiri (masaharu.ieiri@kek.jp)</a> <a href="http://j-parc.jp/researcher/hadron/en/index.html">http://j-parc.jp/researcher/hadron/en/index.html</a>
<b>KEK / Tsukuba (JP)</b>						Fuji beam line in KEKB main ring unavailable until Super KEKB will resume operation <a href="http://www.kek.jp/ja/Facility/1PNS/K11BeamLine/">http://www.kek.jp/ja/Facility/1PNS/K11BeamLine/</a>
<b>PSI / piE1, piM1, etc. (CH)</b>	2-4	$\pi^+$ , $\mu^+$ , e+, p	50-450 MeV/c, rate $< 10^8$ sec <sup>-1</sup> 20nsec structure continuous beam at very high rate		6-8 months per year	Beam time allocated by programme committee (twice per year) Contact: <a href="mailto:Davide.Reggiani@psi.ch">Davide Reggiani (davide.reggiani@psi.ch)</a>
<b>PSI / PIF (CH)</b>	1	p	5 - 230 MeV/c max. current 2 - 5 nA, rate $< 10^8$ sec <sup>-1</sup> , typ. flux $10^8$ cm <sup>-2</sup> sec <sup>-1</sup> for wide beam, energy, beam spot and flux selectable by user		11 months per year, mostly during weekends	Contact: <a href="mailto:Wojtek.Hajdas@psi.ch">Wojtek Hajdas (wojtek.hajdas@psi.ch)</a>
<b>SLAC (US)</b>	0	e (prim.) e (sec)	2.5 - 15 GeV/c 1 - 14 GeV/c		Currently no beam, 9 months per year, 50% duty cycle	No beam for the coming years Contact: <a href="mailto:Carsten.Hast@slac.stanford.edu">Carsten Hast (hast@slac.stanford.edu)</a> <a href="https://slacportal.slac.stanford.edu/sites/ard_public/tfd/">https://slacportal.slac.stanford.edu/sites/ard_public/tfd/</a>
<b>SPRING-8, Compton Facility (JP)</b>	1	photons (tagged) e+, e- (conv.)	1.5 - 3.0 GeV/c 0.4 - 3.0 GeV/c		>60 days per year	Contact: <a href="mailto:Takashi.Nakano@crnp.osaka-u.ac.jp">Takashi Nakano (nakano@crnp.osaka-u.ac.jp)</a> <a href="http://www.spring8.or.jp/en/">http://www.spring8.or.jp/en/</a>
<b>University of Bonn ELSA (D)</b>	1	e-	Energy range: 1.2 - 3.2 GeV/c rate: ~500Hz - 1 GHz	Trigger, beam telescope	upon request, ~30 days/year	Contact: <a href="mailto:Daniel.Elner@physik.uni-bonn.de">Daniel Elner &lt;elner@physik.uni-bonn.de&gt;</a> <a href="http://www.elsa.physik.uni-bonn.de/elsa-facility_en.html">http://www.elsa.physik.uni-bonn.de/elsa-facility_en.html</a>
<b>University of Mainz MAMI (D)</b>	3	e- gamma	Energy range for e- and gamma beam: < 1.6 GeV/c e- intensity < 100muA	energy tagged photon beam	upon request, ~30 days/year	Contact: <a href="mailto:Susanne.Fischer@kph.uni-mainz.de">Susanne Fischer &lt;fischer@kph.uni-mainz.de&gt;</a> <a href="http://www.kph.uni-mainz.de/eng/index.php">http://www.kph.uni-mainz.de/eng/index.php</a>

\*Beam lines with beams of energies higher than 100 MeV/c