

Test beams\* in the world, status September 2016

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 Duty cycle depends on PS / SPS / LHC operation mode and is typical * PS ~1-3% * SPS: 20-40%	contact beam time request and scheduling: Sps.Coordinator@cern.ch <a href="http://sps-schedule.web.cern.ch/sps-schedule/">http://sps-schedule.web.cern.ch/sps-schedule/</a> contact beam lines: sba-physicists@cern.ch <a href="http://sba.web.cern.ch/sba/">http://sba.web.cern.ch/sba/</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		
<b>DAFNE BTF Frascati, (IT)</b>	1	e <sup>+</sup> /e <sup>-</sup> both primaries and secondaries	25-750 MeV/c Rep Rate 50Hz 1-40 ns 1 to 10 <sup>10</sup> p/pulse	calorimeter, silicon pixel, remote trolley, gas system, HV, trigger	depending on DAFNE schedule, from 25 to 35 weeks/year	contact: btf@Inf.infn.it, paolo.valente@Inf.infn.it info at: <a href="http://www.Inf.infn.it/acceleratori/btf">http://www.Inf.infn.it/acceleratori/btf</a> <a href="http://www.Inf.infn.it/acceleratori/padme">http://www.Inf.infn.it/acceleratori/padme</a>
<b>DESY (D)</b>	3	e <sup>+</sup> , e <sup>-</sup> (sec.) e <sup>-</sup> (prim., planned for 201X)	1 - 6 GeV/c 6.3 GeV/c	Trigger systems and beam telescopes, magnet (~1T)	10 months per year, Duty cycle ~ 50%	contact: Testbeam-Coor@desy.de <a href="http://testbeam.desy.de">http://testbeam.desy.de</a>
<b>ELPH (Sendai) (JP)</b>	2	photons (tagged) e <sup>+</sup> , e <sup>-</sup> (conv.)	0.7-1.2 GeV/c 0.1-1.0 GeV/c beam rate < 500kHz (typical rate: 2kHz)		2 months/year	contact: Toshimi Suda (suda@ins.tohoku.ac.jp) info: <a href="http://hayabusa1.ins.tohoku.ac.jp/en/users?id=a5">http://hayabusa1.ins.tohoku.ac.jp/en/users?id=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: FTBF_Co@fnal.gov <a href="http://ftbf.fnal.gov/">http://ftbf.fnal.gov/</a> contact: Mandy Rominsky (rominsky@fnal.gov) Erik Ramberg (ramberg@fnal.gov)
<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: Hu Tao (hut@ihep.ac.cn)
<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: Alexandre Zaitsev (alexandre.zaitsev@cern.ch)
<b>KEK / JPARC (JP)</b>						no dedicated lines for test beams contact: Masaharu Ieiri (masaharu.ieiri@kek.jp) <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/IPNS/K11BeamLine/">http://www.kek.jp/ja/Facility/IPNS/K11BeamLine/</a>
<b>PSI / piE1, piM1, etc. (CH)</b>	2-4	$\pi^+, \mu^+, e^+, p$	50-450 MeV/c, rate <10 <sup>9</sup> 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: Davide Reggiani (davide.reggiani@psi.ch)
<b>PSI / PIF (CH)</b>	1	p	5 - 230 MeV/c ix. current 2 - 5 nA, rate <10 <sup>9</sup> sec <sup>-1</sup> , typ. flux 10 <sup>9</sup> 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: Wojtek Hajdas (wojtek.hajdas@psi.ch)
<b>SLAC (US)</b>	1	e (prim.) e (sec.)	2.5 - 15 GeV/c 1 - 14 GeV/c		9 months per year, 50% duty cycle	contact: Carsten Hast (hast@slac.stanford.edu) <a href="https://slacportal.slac.stanford.edu/sites/ard_public/ftd/">https://slacportal.slac.stanford.edu/sites/ard_public/ftd/</a>
<b>SPRING-8, Compton Facility (JP)</b>	1	photons (tagged) e <sup>+</sup> , e <sup>-</sup> (conv.)	1.5 - 3.0 GeV/c 0.4 - 3.0 GeV/c		>60 days per year	contact: Takashi Nakano (nakano@rcnp.osaka-u.ac.jp) <a href="http://www.spring8.or.jp/en/">http://www.spring8.or.jp/en/</a>

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