Laboratory	Number of beam lines	Particles	Energy range	Diagnostics etc.	Availability
CERN / VESPER (CH)	I	e-	50-250 MeV/c average flux \sim I \times I 0 8 e/cm 2 /s	Irradiation stand with moveable stages, plasma lens sttand, I2GHz RF stand, THz RF stand	8 -9 months per year
CERN / IRRAD (CH)	I	p	24 GeV/c flux I-3 \times 10 ¹⁰ p/cm ² /s		Closed during LS2 Will restart in 2021
TRIUMF PIF (CA)	2	P	480 MeV/c , 10 ⁵ - 7 × 10 ⁸ p/cm ² /s 63 or 105 MeV/c , 10 ⁵ - 2 × 10 ⁹ p/cm ² /s		850 hours per year 1150 hours per year
PSI / PIF (CH)	ı	Р	5 - 230 MeV/c max.current 2 - 5 nA, rate < 10° sec¹, typ.flux 10° cm² sec¹for wide beam, energy, beam spot and flux selectable by user		I I months per year, mostly during weekends
KIT / KAZ (Germany)	I	P	25.3 MeV/c flux $\sim 2.5 \times 10^{13} \text{ p/cm}^2/\text{s}$		
UoB/MC40 cyclotron (UK)	I	P	< 40 MeV/c Flux ~ 10 ¹³ protons s ⁻¹ cm ⁻²		
CERN / CC60 (CH)	I	Υ	I.17 MeV, I.33 MeV (10 TBq ⁶⁰ Cobalt source)		
CERN / GIF++ (CH)	I	γ (+ μ)	0.662 MeV (TBq ¹³⁷ Cesium source) typically 100 GeV/c, ~ 10 ⁴ / spill		
ITAINOVA / EMClab (Spain)	I	EM	EMC tests (Emission and Imm ார்க் x)	Semi-anechoic, Faraday cage, ESD up to 30kV, Equipment to perform transient tests, antennas, RF generators	
CERN / CHARM (CH)	l	mixed field	selectable particle types, energies and fluences	homogenous field over $\sim 1~\text{m}^2$	
UCLouvain / CRC (Belgium)	I	heavy ions	high LET or high penetration cocktail flux ~ few - 10 ⁴ part/cm ² /s		
JSI / TRIGA Reactor (Slovenia)	2	n	fast & thermal, flux $1-4 \times 10^{12}$ n/cm ² /s thermal, regenerated fast, flux $< 5 \times 10^8$ n/cm	1 ² /s	
NPI /Rez (Czech Republic)	1	n	flux < 10 ¹¹ n/cm²/s (TBC)		
ENEA / TRIGA reactor (Italy)	I	n	flux < 10 ¹³ n/cm ² /s		
ENEA / TAPIRO reactor	I	n	2.2 10^12 n / cm^2 s		
ESS BILBAO / LAN (Spain)	I	n	Average spectra 7.75 MeV, Emax 50 MeV flux: 2 x 10^8 - 6 x 10^12	,	
LBNL / Cyclotron (USA)	I	n I >	8-30 MeV c 10^11 neutrons / cm^2 / s (1E8 monoene	rgetic)	
UCDavis / TRIGA MarkII (USA)	ı	n	0.025 eV to 1 MeV flux < 1*10^13 neutrons/cm^2 s		
Uppsala U. / NESSA (Sweden)	ı	n	I4 MeV I0^II neutron/s		