

	TLEP Z	TLEP W	TLEP H	TLEP t		TLEP ttH & ZHH
E_{beam} [GeV]	45	80	120	175		250
circumf. [km]	100	100	100	100		100
beam current [mA]	1440	154	29.8	6.7		1.6
#bunches/beam	7500	3200	167	160	20	10
$\#e^-/\text{bunch}$ [10^{11}]	4.0	1.0	3.7	0.88	7.0	3.3
# arc cells in units of base cell	6	2	2	1	2	1
horiz. emit. [nm]	29.2	3.3	7.5	2.0	16.0	4.0
vert. emit. [nm]	0.06	0.017	0.015	0.002	0.016	0.004
bending rad. [km]	11.0	11.0	11.0	11.0		11.0
κ_{ϵ}	500	200	500	1000		1000
mom. c. α_c [10^{-5}]	3.6	0.4	0.4	0.1	0.4	0.1
$P_{\text{loss,SR}}/\text{beam}$ [MW]	50	50	50	50		50
β_x^* [m]	0.5	0.2	0.5	1.0		1.0
β_y^* [mm]	1.0	1.0	1.0	1.0		1.0
σ_x^* [μm]	121	26	61	45	126	63
σ_y^* [μm]	0.25	0.13	0.12	0.045	0.126	0.063
$\delta_{\text{rms}}^{\text{SR}}$ [%]	0.05	0.09	0.14	0.20		0.29
$\sigma_{z,\text{rms}}^{\text{SR}}$ [mm]	1.16	0.91	0.98	0.68	1.35	1.56
$\delta_{\text{rms}}^{\text{tot}}$ [%]	0.13	0.20	0.30	0.23	0.29	0.34
$\sigma_{z,\text{rms}}^{\text{tot}}$ [mm]	2.93	1.98	2.11	0.77	1.95	1.81
hourglass F_{hg}	0.61	0.71	0.69	0.90	0.71	0.73
$E_{\text{loss}}^{\text{SR}}/\text{turn}$ [GeV]	0.03	0.3	1.7	7.5		31.4
$V_{\text{RF,tot}}$ [GV]	2	2	6	12		35
τ_{f} (turns)	1319	242	72	23		8
$\delta_{\text{max,RF}}$ [%]	5.3	10.6	13.4	19.0	9.5	5.9
ξ_x/IP	0.068	0.086	0.094	0.057		0.075
ξ_y/IP	0.068	0.086	0.094	0.057		0.075
f_s [kHz]	0.77	0.19	0.27	0.14	0.29	0.266
E_{acc} [MV/m]	3	3	10	20		20
eff. RF length [m]	600	600	600	600		1750
f_{RF} [MHz]	800	800	800	800		800
$\mathcal{L}/\text{IP}[10^{32}\text{cm}^{-2}\text{s}^{-1}]$	5860	1640	508	132	104	48
number of IPs	4	4	4	4		4
beam lifetime [min] (rad. Bhabha)	99	38	24	21	26	13
beam lifetime [min] (beamstrahlung Telnov with $\eta=2\%$)	$>10^{25}$	$>10^6$	38	14	2.1 [11.6 with $\eta=2.5\%$]	0.3 [2.8 with $\eta=3\%$]