Erratum: Collision monochromatization in e^+e^- colliders [Phys. Rev. Accel. Beams **20**, 051001 (2017)]

A. Bogomyagkov and E. Levichev

(Received 2 August 2017; published 26 February 2018)

DOI: [10.1103/PhysRevAccelBeams.21.029902](https://doi.org/10.1103/PhysRevAccelBeams.21.029902)

In Table I in the first column the luminosity line should read 90 instead of 9. Here is the corrected Table I.

The sentence:

“Notice with $\Lambda = 10$ energy resolution improves more than by a factor of ten this is because of energy spread reduction. This happens owing to beamstrahlung: dispersion at the IP increases horizontal emittance (24) and (27), larger emittance means smaller beam density and weaker fields of the opposite bunch; therefore, smaller energy spread.”

should read

“Notice that with $\Lambda = 10$ the energy resolution improves by more than a factor of 10 because of a reduction in energy spread. This happens owing to beamstrahlung: IP beam size is mostly defined by dispersion, larger beam size means smaller beam density and weaker fields of the opposite bunch; therefore, smaller energy spread.”

We thank Dr. D. Shatilov for noticing a typo in Table I and demanding a clarification for the energy spread reduction in column 2 of Table I.

TABLE I. Parameters of FCC-ee with and without monochromatization for two IPs.

Energy, GeV	62.5	62.5	62.5
ψ_x , m	0	1	0.5
β_x/β_y , mm	500/1	500/1	500/1.4
$\varepsilon_x/\varepsilon_y$, nm/pm	0.26/2	2.8/21	3.8/2.9
θ , mrad		15	
σ_x (no BS), mm	0.01	0.01	0.01
σ_y (no BS), μm	0.045	0.045	0.053
σ_z (no BS), mm	3.8	3.8	2.6
σ_x , mm	0.01	0.04	0.04
σ_y , μm	0.04	0.15	0.2
σ_z , mm	8.3	3.8	2.8
σ_δ , 10^{-4}	16	7	8
Piwinski angle φ	11	1.5	0.95
V_{rf} , GeV	0.75	0.75	1.5
N_p		3×10^{11}	
N_{bunches}		2615	
Luminosity, $10^{34} \text{ cm}^{-2} \text{ s}^{-1}$	90	2.8	5
R_{hg}	0.9	0.54	0.71
Λ	1	10	6
σ_M , MeV	141	6	11
ξ_x/ξ_y	0.04/0.2	0.001/0.01	0.004/0.02