Diffractional photoproduction of Z^0 bosons in coherent interactions at CERN-LHC

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We have found in the numerical calculations an erroneous 2π factor in the overall normalization of cross sections. Therefore, the numerical values of cross sections and parameterizations in the original manuscript have to be rescaled by a factor $1/2\pi$. The main conclusions remain unchanged. For instance, we quote the results for the $p\bar{p}$ Tevatron energy: for total rapidity one has 0.21 fb and 0.12 fb for rapidity $|y| \leq 1$. Assuming $\mathcal{L} = 2 \times 10^5 \text{ mb}^{-1} \text{ s}^{-1}$ at Tevatron, it implies that the corresponding events rates/second is $0.4 \times 10^{-7} \text{ s}^{-1}$. In what follows we present the corrected Table 1.

Table 1 The integrated cross section (events rates/second) for the diffractive Z^0 photoproduction in $pp/\text{CaCa}/\text{PbPb}$ collisions at LHC energies

$h_1 h_2$	Total	$ y < 1$
PbPb ($\mathcal{L} = 0.42 \text{ mb}^{-1} \text{ s}^{-1}$)	0.3 nb ($0.13 \times 10^{-6} \text{ s}^{-1}$)	0.25 nb
CaCa ($\mathcal{L} = 43 \text{ mb}^{-1} \text{ s}^{-1}$)	10 pb ($0.45 \times 10^{-6} \text{ s}^{-1}$)	8 pb
pp ($\mathcal{L} = 10^7 \text{ mb}^{-1} \text{ s}^{-1}$)	11 fb ($1.1 \times 10^{-4} \text{ s}^{-1}$)	1.9 fb

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