Erratum: Muon-electron scattering at NLO

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We became aware of a misrepresentation of the differential cross sections in the upper panels of figure 4 of the original paper. Namely, the vertical scale of the plots is wrong by a factor of $\pi/180 \times 1000 \simeq 17.4533$. The corrected graphs are shown in the figure below for completeness, which replaces Fig. 4 of the paper. The rest of the plots in the paper and the conclusions remain unchanged.

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Figure 4. Left plot: the LO and NLO QED cross sections of the $\mu^+e^- \rightarrow \mu^+e^-$ process, as a function of the electron scattering angle, for the different setup described in the text (upper panel); relative NLO QED corrections (lower panel). Right plot: the same as in the left plot, as a function of the muon scattering angle.