

Erratum: $B \rightarrow K_1 \gamma$ decays in the light-cone QCD sum rules [Phys. Rev. D **77**, 094023 (2008)]

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Eq. (3.7) should read

$$A_{\text{ver}}^{(1)}(\mu) = \frac{\alpha_s(\mu)}{4\pi} \left\{ \frac{32}{81} [13c_1^{(0)}(\mu) - 9c_8^{(0)\text{eff}}(\mu)] \ln \frac{\bar{m}_b}{\mu} + \frac{4}{27} (33 - 2\pi^2 + 6\pi i) c_8^{(0)\text{eff}}(\mu) - \frac{16}{3} c_7^{(0)\text{eff}} + r_2(z) c_1^{(0)}(\mu) \right\}.$$

Accordingly, Eq. (5.14) is corrected to be

$$\mathcal{B}(B \rightarrow K_1 \gamma) = \tau_B \frac{G_F^2 \alpha |V_{tb} V_{ts}^*|^2}{32\pi^4} m_{b,\text{pole}}^2 m_B^3 \left(1 - \frac{m_{K_1}^2}{m_B^2} \right)^3 (T_1^{K_1}(0))^2 |(-0.360 - i0.015) + A_{\text{sp}}^{(1)K_1}(\mu_h)|^2,$$

and then Fig. 2 and Table II should be revised as shown.

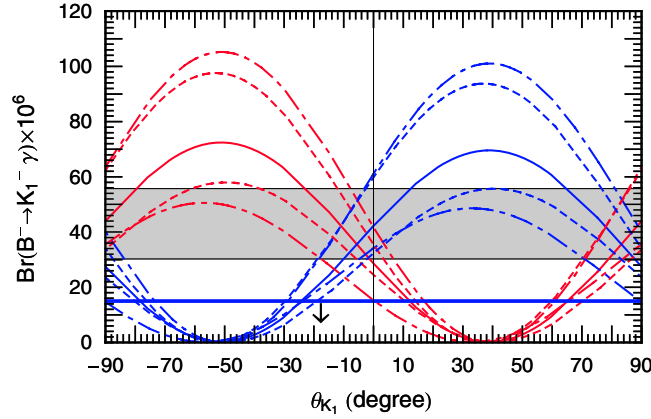


FIG. 2 (color online). Branching ratios as functions of the mixing angle θ_{K_1} . The upper five curves at $\theta_{K_1} = -50^\circ$ are for the $K_1(1270)\gamma$ mode, and the lower five curves for the $K_1(1400)\gamma$ mode. The solid curves correspond to central values of the input parameters. The dot-dashed and dashed curves denote the theoretical uncertainties due to the parameters of LCDAs and $m_{b,\text{pole}}$, respectively. The horizontal line is the experimental limit on $B \rightarrow K_1(1400)\gamma$, and the horizontal band shows the experimental result for the $K_1(1270)\gamma$ mode with its 1σ error.

TABLE II. Branching ratios for the radiative decays $B \rightarrow K_1(1270)\gamma$, $K_1(1400)\gamma$ (in units of 10^{-6}) in this work and the experiment [1].

	$\mathcal{B}(B^- \rightarrow K_1^-(1270)\gamma)$	$\mathcal{B}(B^- \rightarrow K_1^-(1400)\gamma)$
Experiment	43 ± 13	< 15
This work	$66_{-12}^{+21+30+2+6}{}_{-24-4-12}$	$6.5_{-2.2-0.0-0.2-5.9}^{+4.0+2.6+0.1+11.9}$
	$\mathcal{B}(\bar{B}^0 \rightarrow \bar{K}_1^0(1270)\gamma)$	$\mathcal{B}(\bar{B}^0 \rightarrow \bar{K}_1^0(1400)\gamma)$
Experiment	< 58	< 15
This work	$62_{-12-23-4-12}^{+19+28+2+5}$	$6.1_{-2.1-0.0-0.2-5.5}^{+3.7+2.4+0.0+11.1}$

[1] K. Abe *et al.*, (Belle Collaboration), arXiv:hep-ex/0408138; H. Yang *et al.*, Phys. Rev. Lett. **94**, 111802 (2005); E. Barberio *et al.*, (Heavy Flavor Averaging Group), arXiv:0704.3575 and online update at <http://www.slac.stanford.edu/xorg/hfag>.