

Erratum: Measurements of the branching fractions for $B_{(s)} \rightarrow D_{(s)} \pi \pi \pi$ and $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi \pi \pi$ [Phys. Rev. D 84, 092001 (2011)]

R. Aaij *et al.*

(LHCb Collaboration)

(Received 7 January 2012; published 22 February 2012)

DOI: 10.1103/PhysRevD.85.039904

PACS numbers: 13.25.Hw, 99.10.Cd

On page 17, Table V, the relative efficiencies are given as a fraction. The line in the table indicating (%) should be ignored.

On page 18, several of the charge assignments for the pions were incorrectly written. The corrected equations should read:

$$\begin{aligned} \frac{\mathcal{B}(\bar{B}^0 \rightarrow D_1^+ \pi^-, D_1^+ \rightarrow D^+ \pi^- \pi^+)}{\bar{B}^0 \rightarrow D^+ \pi^- \pi^+ \pi^-} &= (2.1 \pm 0.5_{-0.5}^{+0.3})\% \\ \frac{\mathcal{B}(B^- \rightarrow D_1^0 \pi^-, D_1^0 \rightarrow D^0 \pi^- \pi^+)}{B^- \rightarrow D^0 \pi^- \pi^+ \pi^-} &= (10.3 \pm 1.5 \pm 0.9)\% \\ \frac{\mathcal{B}(B^- \rightarrow D_1^0 \pi^-, D_1^0 \rightarrow D^{*+} \pi^-)}{B^- \rightarrow D^0 \pi^- \pi^+ \pi^-} &= (9.3 \pm 1.6 \pm 0.9)\% \\ \frac{\mathcal{B}(B^- \rightarrow D_1^0 \pi^-, D_1^0 \rightarrow D^0 \pi^- \pi^+)_{\text{non-}D^*}}{B^- \rightarrow D^0 \pi^- \pi^+ \pi^-} &= (4.0 \pm 0.7 \pm 0.5)\% \\ \frac{\mathcal{B}(B^- \rightarrow D_2^{*0} \pi^-, D_2^{*0} \rightarrow D^0 \pi^- \pi^+)}{B^- \rightarrow D^0 \pi^- \pi^+ \pi^-} &= (4.0 \pm 1.0 \pm 0.4)\% \\ \frac{\mathcal{B}(B^- \rightarrow D_2^{*0} \pi^-, D_2^{*0} \rightarrow D^{*+} \pi^-)}{B^- \rightarrow D^0 \pi^- \pi^+ \pi^-} &= (3.9 \pm 1.2 \pm 0.4)\% \\ \frac{\mathcal{B}(B^- \rightarrow D_2^{*0} \pi^-, D_2^{*0} \rightarrow D^0 \pi^- \pi^+)_{\text{non-}D^*}}{B^- \rightarrow D^0 \pi^- \pi^+ \pi^-} &= (1.4 \pm 0.6 \pm 0.2)\% \\ &< 3.0\% \quad \text{at } 90\% \text{C.L.} \\ \frac{\mathcal{B}(\Lambda_b^0 \rightarrow \Lambda_c(2595)^+ \pi^-, \Lambda_c(2595)^+ \rightarrow \Lambda_c^+ \pi^- \pi^+)}{\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^- \pi^+ \pi^-} &= (4.4 \pm 1.7_{-0.4}^{+0.6})\% \\ \frac{\mathcal{B}(\Lambda_b^0 \rightarrow \Lambda_c(2625)^+ \pi^-, \Lambda_c(2625)^+ \rightarrow \Lambda_c^+ \pi^- \pi^+)}{\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^- \pi^+ \pi^-} &= (4.3 \pm 1.5 \pm 0.4)\% \\ \frac{\mathcal{B}(\Lambda_b^0 \rightarrow \Sigma_c^{0,++} \pi^\pm \pi^\mp, \Sigma_c^{0,++} \rightarrow \Lambda_c^+ \pi^\mp)}{\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^- \pi^+ \pi^-} &= (11.4 \pm 3.1 \pm 1.8)\% \end{aligned}$$

$$\begin{aligned} \mathcal{B}(\bar{B}^0 \rightarrow D_1(2420)^+ \pi^-, \quad D_1(2420)^+ \rightarrow D^+ \pi^- \pi^+) &= (1.3 \pm 0.3_{-0.3}^{+0.2}) \times 10^{-4} \\ \mathcal{B}(B^- \rightarrow D_1(2420)^0 \pi^-, \quad D_1(2420)^0 \rightarrow D^0 \pi^- \pi^+) &= (6.3 \pm 0.9 \pm 0.9) \times 10^{-4} \\ \mathcal{B}(B^- \rightarrow D_1(2420)^0 \pi^-, \quad D_1(2420)^0 \rightarrow D^{*+} \pi^-) &= (5.8 \pm 1.0 \pm 0.9) \times 10^{-4} \\ \mathcal{B}(B^- \rightarrow D_1(2420)^0 \pi^-, \quad D_1(2420)^0 \rightarrow D^0 \pi^+ \pi^-)_{\text{non-}D^*} &= (2.5 \pm 0.4 \pm 0.4) \times 10^{-4} \\ \mathcal{B}(B^- \rightarrow D_2^*(2460)^0 \pi^-, \quad D_2^*(2460)^0 \rightarrow D^{*+} \pi^-) &= (2.5 \pm 0.7 \pm 0.4) \times 10^{-4} \end{aligned}$$

All numerical results in the paper are unaffected by these changes.

Published by the American Physical Society under the terms of the [Creative Commons Attribution 3.0 License](https://creativecommons.org/licenses/by/3.0/). Further distribution of this work must maintain attribution to the author(s) and the published article's title, journal citation, and DOI.