

Table 1: Product of the B meson branching fraction and the daughter (excited) D meson branching fraction. Table 2/2.

Resonance	Decay	\mathcal{B} [10^{-4}]	Measured by	Reference
$D_1(2430)^\pm$	$\bar{B}^0 \rightarrow D_1(2430)^+(\rightarrow D^{*0}\pi^+)l^-\bar{\nu}_l$	$20.6 \pm 6.8 \pm 2.5$	Belle	[1]
		$31 \pm 7 \pm 5$	<i>BABAR</i>	[2]
		24.9 ± 5.5	Our average	
B^-	$D_2^*(2460)^0(\rightarrow D^+\pi^-)\pi^-$	$3.4 \pm 0.3 \pm 0.7$	Belle	[3]
		$3.5 \pm 0.2 \pm 0.5$	<i>BABAR</i>	[4]
		$3.62 \pm 0.06 \pm 0.30$	LHCb	[5]
		3.57 ± 0.25	Our average	
$D_2^*(2460)^0$	$B^- \rightarrow D_2^*(2460)^0(\rightarrow D^{*+}\pi^-)\pi^-$	$1.8 \pm 0.3 \pm 0.4$	Belle	[3]
		$2.08 \pm 0.03 \pm 0.37$	LHCb	[6]
		1.98 ± 0.30	Our average	
	$\bar{B}^0 \rightarrow D_2^*(2460)^0(\rightarrow D^{*+}\pi^-)\omega$	$0.4 \pm 0.1^{+0.0}_{-0.1} \pm 0.1$	Belle	[7]
	$B^- \rightarrow D_2^*(2460)^0(\rightarrow D^+\pi^-)K^-$	$0.232 \pm 0.011 \pm 0.02$	LHCb	[8]
B^-	$D_2^*(2460)^0(\rightarrow D^{(*)+}\pi^-)l^-\bar{\nu}_l$	$30.0 \pm 2.8 \pm 1.1$	Belle	[1]
		$22.9 \pm 2.3 \pm 2.1$	<i>BABAR</i>	[9]
		$15 \pm 2 \pm 1$	<i>BABAR</i>	[2]
		$22 \pm 3 \pm 4$	Belle	[10]
		21.1 ± 1.5	Our average	
\bar{B}^0	$D_2^*(2460)^+(\rightarrow D^0\pi^+)\pi^-$	$2.44 \pm 0.07 \pm 0.16$	LHCb	[11]
		$2.15 \pm 0.17 \pm 0.31$	Belle	[12]
		2.38 ± 0.16	Our average	
$D_2^*(2460)^\pm$	$\bar{B}^0 \rightarrow D_2^*(2460)^+(\rightarrow D^0\pi^+)K^-$	$0.212 \pm 0.010 \pm 0.029$	LHCb	[13]
\bar{B}^0	$D_2^*(2460)^+(\rightarrow D^0\pi^+)l^-\bar{\nu}_l$	$20.8 \pm 4.3 \pm 1.1$	Belle	[1]
		$17.7 \pm 2.6 \pm 1.1$	<i>BABAR</i>	[9]
		$7 \pm 3 \pm 1$	<i>BABAR</i>	[2]
		$22 \pm 4 \pm 4$	Belle	[10]
		15.2 ± 1.8	Our average	
$D_0(2550)^0$	$B^- \rightarrow D_0(2550)^0(\rightarrow D^{*+}\pi^-)\pi^-$	$0.72 \pm 0.01 \pm 0.14$	LHCb	[6]
$D_1^*(2600)^0$	$B^- \rightarrow D_1^*(2600)^0(\rightarrow D^{*+}\pi^-)\pi^-$	$0.68 \pm 0.01 \pm 0.13$	LHCb	[6]
$D_1^*(2680)^0$	$B^- \rightarrow D_1^*(2680)^0(\rightarrow D^+\pi^-)\pi^-$	$0.84 \pm 0.06 \pm 0.20$	LHCb	[5]
$D_2(2740)^0$	$B^- \rightarrow D_2(2740)^0(\rightarrow D^{*+}\pi^-)\pi^-$	$0.33 \pm 0.02 \pm 0.15$	LHCb	[6]
$D_1^*(2760)^0$	$B^- \rightarrow D_1^*(2760)^0(\rightarrow D^+\pi^-)K^-$	$0.036 \pm 0.009 \pm 0.008$	LHCb	[8]
$D_3^*(2760)^0$	$\bar{B}^- \rightarrow D_3^*(2760)^0(\rightarrow D^+\pi^-)\pi^-$	$0.10 \pm 0.01 \pm 0.02$	LHCb	[5]
	$\bar{B}^- \rightarrow D_3^*(2760)^0(\rightarrow D^{*+}\pi^-)\pi^-$	$0.11 \pm 0.01 \pm 0.03$	LHCb	[6]
$D_3^*(2760)^\pm$	$\bar{B}^0 \rightarrow D_3^*(2760)^+(\rightarrow D^0\pi^+)\pi^-$	$0.103 \pm 0.016 \pm 0.011$	LHCb	[11]
$D_2^*(3000)^0$	$\bar{B}^0 \rightarrow D_2^*(3000)^0(\rightarrow D^+\pi^-)\pi^-$	$0.02 \pm 0.01 \pm 0.01$	LHCb	[5]

References

- [1] Belle collaboration, F. Meier *et al.*, Phys. Rev. D **107**, no. 9, 092003 (2023), [arXiv:2211.09833](#) [[hep-ex](#)].
- [2] BaBar collaboration, B. Aubert *et al.*, Phys. Rev. Lett. **101**, 261802 (2008), [arXiv:0808.0528](#) [[hep-ex](#)].
- [3] Belle collaboration, K. Abe *et al.*, Phys. Rev. **D69**, 112002 (2004), [arXiv:hep-ex/0307021](#) [[hep-ex](#)].
- [4] *BABAR* collaboration, B. Aubert *et al.*, Phys. Rev. **D79**, 112004 (2009), [arXiv:0901.1291](#) [[hep-ex](#)].
- [5] LHCb collaboration, R. Aaij *et al.*, Phys. Rev. **D94**, 072001 (2016), [arXiv:1608.01289](#) [[hep-ex](#)].
- [6] LHCb collaboration, R. Aaij *et al.*, Phys. Rev. D **101**, no. 3, 032005 (2020), [arXiv:1911.05957](#) [[hep-ex](#)].
- [7] Belle collaboration, D. Matvienko *et al.*, Phys. Rev. **D92**, 012013 (2015), [arXiv:1505.03362](#) [[hep-ex](#)].
- [8] LHCb collaboration, R. Aaij *et al.*, Phys. Rev. **D91**, 092002 (2015), [arXiv:1503.02995](#) [[hep-ex](#)], Erratum *ibid.* **D93**, 119901, (2016).
- [9] BaBar collaboration, B. Aubert *et al.*, Phys. Rev. Lett. **103**, 051803 (2009), [arXiv:0808.0333](#) [[hep-ex](#)].
- [10] Belle collaboration, D. Liventsev *et al.*, Phys. Rev. D **77**, 091503 (2008), [arXiv:0711.3252](#) [[hep-ex](#)].
- [11] LHCb collaboration, R. Aaij *et al.*, Phys. Rev. **D92**, 032002 (2015), [arXiv:1505.01710](#) [[hep-ex](#)].
- [12] Belle collaboration, A. Kuzmin *et al.*, Phys. Rev. **D76**, 012006 (2007), [arXiv:hep-ex/0611054](#) [[hep-ex](#)].
- [13] LHCb collaboration, R. Aaij *et al.*, Phys. Rev. **D92**, 012012 (2015), [arXiv:1505.01505](#) [[hep-ex](#)].