

chiral logarithms. The effects of both the valence and sea strange quarks are encapsulated in the values of the low-energy constants, e.g. $\phi_0^{(s)}(m_y, m_h)$.

-
- [1] N. Cabibbo, Phys. Rev. Lett. **10**, 531 (1963).
 - [2] M. Kobayashi and T. Maskawa, Prog. Theor. Phys. **49**, 652 (1973).
 - [3] A. J. Buras, M. Jamin, and P. H. Weisz, Nucl. Phys. **B347**, 491 (1990).
 - [4] G. Buchalla, A. J. Buras, and M. E. Lautenbacher, Rev. Mod. Phys. **68**, 1125 (1996), hep-ph/9512380.
 - [5] T. Inami and C. S. Lim, Prog. Theor. Phys. **65**, 297 (1981), erratum: ibid **65** (1981) 1772.
 - [6] C. Amsler et al. (Particle Data Group), Phys. Lett. **B667**, 1 (2008).
 - [7] V. M. Abazov et al. (DØ), Phys. Rev. Lett. **97**, 021802 (2006), hep-ex/0603029.
 - [8] A. Abulencia et al. (CDF), Phys. Rev. Lett. **97**, 062003 (2006), hep-ex/0606027.
 - [9] A. Abulencia et al. (CDF), Phys. Rev. Lett. **97**, 242003 (2006), hep-ex/0609040.
 - [10] C. W. Bernard, T. Blum, and A. Soni, Phys. Rev. **D58**, 014501 (1998), hep-lat/9801039.
 - [11] J. Charles et al. (CKMfitter Group), URL <http://ckmfitter.in2p3.fr/>.
 - [12] M. Bona et al. (UTfit Collaboration), URL <http://utfit.roma1.infn.it/>.
 - [13] E. Lunghi and A. Soni, Phys. Lett. **B666**, 162 (2008), arXiv:0803.4340.
 - [14] E. Gamiz, C. T. H. Davies, G. P. Lepage, J. Shigemitsu, and M. Wingate (HPQCD), Phys. Rev. **D80**, 014503 (2009), arXiv:0902.1815.
 - [15] R. T. Evans, E. Gamiz, A. El-Khadra, and A. Kronfeld (Fermilab Lattice and MILC) (2009), arXiv:0911.5432.
 - [16] G. P. Lepage, L. Magnea, C. Nakhleh, U. Magnea, and K. Hornbostel, Phys. Rev. **D46**, 4052 (1992), hep-lat/9205007.
 - [17] A. X. El-Khadra, A. S. Kronfeld, and P. B. Mackenzie, Phys. Rev. **D55**, 3933 (1997), hep-lat/9604004.
 - [18] C. W. Bernard et al., Phys. Rev. **D64**, 054506 (2001), hep-lat/0104002.
 - [19] C. Allton et al. (RBC and UKQCD), Phys. Rev. **D76**, 014504 (2007), hep-lat/0701013.
 - [20] D. B. Kaplan, Phys. Lett. **B288**, 342 (1992), hep-lat/9206013.
 - [21] Y. Shamir, Nucl. Phys. **B406**, 90 (1993), hep-lat/9303005.
 - [22] V. Furman and Y. Shamir, Nucl. Phys. **B439**, 54 (1995), hep-lat/9405004.