

Strong Decay Analysis of Bottom Mesons

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In the last decade, a significant experimental progress has been achieved in studying the heavy-light meson spectroscopy. Heavy-light mesons composed of one heavy quark Q and a light quark q are useful in understanding the strong interactions in the non-perturbative regime. Experiments like LHCb, Babar etc are providing many new states which are being added to their spectroscopy. But the information for higher excited bottom mesons is rather limited as compared to the charm mesons. In this, we study the experimentally missing radially excited ($n=2$) bottom mesons. We study their two body strong decays, coupling constants and branching ratios with the emission of light pseudo-scalar mesons (η, K, π) in the framework of HQET which can be confronted with the future experimental data.

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