

## Effective field model for the description of the strong decays of the $B_c$ meson

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In the 1970s, heavy mesons like the quarkonia  $J/\Psi$  and  $\Upsilon$  were discovered, yielding a revolution in hadron physics. Since then, the hadron spectroscopy has gained a lot of attention, with the observation of several states in the charmonium and bottomonium sectors of the spectrum, as well as heavy mesons with open flavors. From the theoretical perspective, we have witnessed the development of several approaches in the context of effective theories to describe the hadron properties. However, the open flavor bottom-charmed meson ( $B_c$ ) sector is not as exhaustively studied as the others. At the best of our knowledge, there are only two  $B_c$ 's confirmed in the Particle Data Group (PDG 2021). With this in mind, in this work we will study the strong decay properties of the bottom-charm meson  $B_c$  via the effective model  ${}^3P_0$ .

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