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| Title: | Sensitivity study of Glueball search at Belle II |
| Authors: | R, Jayadeep |
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| Abstract: | The BABAR collaboration observed an unknown enhancement of around 3 GeV in the 0 m pp spectrum of the $B \rightarrow \rho \rho D^0$ decay. This resonance does not match with any charmonium state or light-flavour mesons, and hence was concluded as corresponding to a glueball fitted as $X(3020)$ with $(m_X, \Gamma_X) = (3020 \pm 8, 107 \pm 30)$ MeV by [1]. This decay mode is analysed in Belle II while also inserting the glueball as the intermediate that decays into the $\rho \rho$ pair. |
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