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Masses of Radially excited P-wave strange bottom meson (n=3) and Regge Trajectories in HQET

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By employing Heavy quark effective theory, we predicted masses of n = 3 strange bottom mesons. Using theoretical information available on charm mesons and flavor symmetry parameters, we calculated masses for radially excited (n = 3) P- wave bottom meson states.
From calculated masses, we plot Regge trajectories in planes (J, M^2) and (n_r, M^2). It nicely fit on data. Our results may provide crucial information for higher excited states and may motivate upcoming experiments at LHCb, PANDA, BESIII, $D\emptyset$ etc. to look for these states.

Session

Heavy Ions and QCD

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