



Contribution ID: 361

Type: Poster

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

Friday 16 December 2022 14:00 (1 hour)

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, $D\theta$ etc. to look for these states.

Session

Heavy Ions and QCD

Primary author: GARG, Ritu (Thapar institute of engineering and technology)

Co-author: Dr UPADHYAY, Alka

Presenter: GARG, Ritu (Thapar institute of engineering and technology)

Session Classification: Poster - 4