

Light Front Distribution Amplitudes of Heavy Mesons and Quarkonia

Content

The ladder kernel of the Bethe-Salpeter equation is amended by introducing a different flavor dependence of the dressing functions in the heavy-quark sector. Compared with earlier work this allows for the simultaneous calculation of the mass spectrum and leptonic decay constants of light pseudoscalar mesons, the D_u , D_s , B_u , B_s and B_c mesons and the heavy quarkonia η_c and η_b within the same framework at a physical pion mass. The corresponding Bethe-Salpeter amplitudes are projected onto the light front and we reconstruct the distribution amplitudes of the mesons in the full theory.

Summary

Primary author(s) : Dr. SERNA, Fernando (Cruzeiro do Sul University)

Co-author(s) : Prof. EL-BENNICH, Bruno (Cruzeiro do Sul University); Dr. COBOS-MARTINEZ, Javier (Universidad de Sonora); ROJAS PEÑA, Eduardo (Instituto de Ciencias Nucleares (UNAM))

Presenter(s) : Dr. SERNA, Fernando (Cruzeiro do Sul University)