

## 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  $\eta_c$  and  $\eta_b$  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)