Seminar

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B-Meson physics in the Heavy Quark Effective Theory

Abstract

The measurement of observables of the $B \to D^{(*)} l\tau_l$ decays includes a whole complete and sophisticated theory and a wide spectrum of tools needed to develop such theory. Among these we will see the need for an effective field theory for mesons containing a heavy quark, the so-called *Heavy quark effective theory*. This provides us with a complete description of the B-physics from which we can get many experimental results that, as we will see, are in tension with the theoretical standard model predictions.