

Quark mass dependence on D_{s0}^* resonance

We study the light and heavy quark mass dependence of the low-lying charmed mesons in the framework of one-loop $\text{HH}\chi\text{PT}$. The low energy constants are determined by analyzing the available lattice data from different LQCD simulations. Model selection tools are implemented to determine the relevant parameters as required by data with a higher precision. Discretization and other effects due to the charm quark mass setting are discussed.

By fitting energy levels we extract results for the D_{s0}^* quark mass dependence

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Session Classification: Registration and Reception

Track Classification: Heavy meson spectroscopy