

Interaction studies of a heavy-light meson-baryon system

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Abstract: We study time correlation functions of operators representing heavy-light K- Λ like systems at various relative distances r . The heavy quarks, one in each hadron, are treated as static. An anisotropic and asymmetric lattice is used with Wilson fermions. Our goal is to extract an adiabatic potential and thus learn about the physics of the five-quark system viewed as an hadronic molecule.