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Cornell potential from Soft Wall holographic approach to QCD

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We discuss the confinement potential of the Cornell type arising within the framework of generalized Soft Wall holographic model to QCD. The generalized model includes a parameter controlling the intercept of the linear Regge spectrum. Our analysis shows that the Cornell potential obtained in the scalar channel leads to a quantitative consistency with the phenomenology and lattice simulations while the agreement in the vector channel is only qualitative. The first excitation in the scalar sector responsible for the formation of confinement potential lies in our fits near 1.5 GeV that is consistent with f0(1500).

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