

# A Simple Analytical Approach to Heavy Quarkonium Spectrum

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Meson spectroscopy can be theoretically studied with lattice QCD, QCD sum rules and quark models. In all these approaches the results are obtained numerically. It would be useful to have an analytical formula for the energy levels of the meson systems. In this work we use the variational principle and apply it to heavy mesons. We derive an expression for the energy levels which depends on the principal ( $n$ ) and angular ( $l$ ) quantum numbers.

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