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Inverse problem approach for non-perturbative QCD: decay constants

Inverse Problem Approach, a novel non-perturbative method, has no any artificial assumptions or uncontrolled parameters.

As an application, we obtain the decay constants for ground states and radial excited states with specific quantum number.

Moreover, the continuum spectrum, containing more resonance properties, is solved simultaneously, and its non-trivial structure demonstrates that certain resonances must exist, highlighting the prediction power of the Inverse Problem Approach in analyzing spectral systems.

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