

Meson Observables from AdS/QCD via the Segre Formula

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Content

In this talk, I will show how a classic tool from nonrelativistic quantum mechanics—the Segre formula—can be used in a holographic AdS/QCD setting to extract new and physically meaningful observables. Using this approach, we can determine quantities such as the constituent quark mass, the three-photon decay width, the effective fine-structure constant for the strong interaction, and even mixed one-photon/two-gluon decay channels. I will also present results for the corresponding decay widths of radially excited heavy-quarkonium states and compare them with existing experimental data.

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