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Heavy Quarkonium in Basis Light-front Quantization Approach

Heavy quarkonium has been solved as a relativistic bound state using Basis Light-Front Quantization (BLFQ), a non-perturbative Hamiltonian approach. We aim to extend the formalism from the valence Fock sector $|q\bar{q}\rangle$ to higher Fock space by including the $|q\bar{q}q\bar{q}\rangle$ sector, in hopes of bringing new aspects into the QCD bound states.

Authors: VARY, James (Iowa State University); LI, Meijian (Iowa State University); MARIS, Pieter (Iowa State University)

Presenter: LI, Meijian (Iowa State University)