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Séminaire de Physique Nucléaire Théorique

Exploring the few-body bound state structure in Minkowski and Euclidean spaces

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We adopt the Bethe-Salpeter equation as the framework to obtain the relativistic bound state structure of both for two and three-body systems. We solve the two-body problem in Minkowski space with ladder and cross-ladder kernels, for bosons, and apply the ladder approximation for the two fermion case to model the pion, with an exchange of a massive gluon. We present results for the valence momentum distributions. Also results for the relativistic three-boson system will be presented.

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