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Bound states in Minkowski space in 2+1 dimensions

The Nakanishi perturbative integral representation of the Bethe-Salpeter (BS) amplitude in three-dimensions (2+1) is investigated in order to derive a workable framework for bound states in Minkowski space. The projection onto the null-plane of the three-dimensional homogeneous BS amplitude is used to derive an equation for the Nakanishi weight function. The formal development is illustrated in detail and applied to the bound system composed by two massive scalars interacting through the exchange of a massive scalar. The explicit forms of the integral equations are obtained in ladder approximation. Autors: C. Gutierrez, V. Gigante, L. Tomio, T. Frederico.

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