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Baryon to meson transition distribution amplitudes and their spectral representation in terms of quadruple distributions

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We consider the problem of construction of a spectral representation
for nucleon to meson transition distribution amplitudes (TDAs), non-diagonal
matrix elements of non local three quark light-cone operators between a nucleon and a meson states. We introduce the notion of quadruple distributions and generalize Radyshkin's factorized Ansatz for this issue. Modelling of baryon to meson TDAs in the complete domain of their definition opens the way to quantitative estimates of cross-sections for various hard exclusive reactions.

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