

Strategy of the Heavy quark Operator Product Expansion applied to the Pion's Light Cone Distribution Amplitude

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The Heavy quark Operator Product Expansion (HOPE) method allows one to extract information about light-cone matrix elements via local, instant form matrix elements. When applied to the calculation of the pion's light cone distribution amplitude, it allows (in principle) the full x dependence of the distribution amplitude to be determined. In practice, finite statistics and finite momenta mean that only a finite number of moments may be extracted. In this talk, I explain the HOPE method, and show how boosting the hadronic state leads to enhanced sensitivity to the moments. I also discuss some kinematical tricks which enable us to extract information about the second moment at much low momenta than would be naively expected.

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