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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 lightcone 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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