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Definitions of fragmentation functions and the implications for sum rules

Tuesday 21 May 2024 12:25 (30 minutes)

I will discuss issues that arise from the mismatch between asymptotic states and partonic states in the formal definitions of fragmentation functions. I will show that standard derivations of common sum rules need to be modified for gauge theories, and discuss several possibilities for constructing more precise definitions. Implications for phenomenological applications will also be discussed.

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