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Next-to-eikonal Webs in multiparton scattering amplitude

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Soft function captures the IR singularities, and in the perturbation theory, it is known to exponentiate. Its logarithm can be organized in terms of collections of Feynman diagrams called webs. Studies into the classification of webs to high perturbative orders have been carried out up to four loop orders. Using next-to-eikonal Feynman rules, the soft function can be generalized to the next-to-soft function, and consequently, webs can be generalized to next-to-eikonal webs to include corrections to the soft function.

In this talk, I present an approach to study the color structure of next to soft function upto three-loop order.

Session

Heavy Ions and QCD

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