



Contribution ID: 194

Type: Oral

Two-loop five-points QCD amplitudes in full colour

Thursday 14 March 2024 15:50 (20 minutes)

In this talk I will present recent developments on the calculation of five-point scattering amplitudes in massless QCD beyond the leading-colour approximation.

I will discuss the methodology that we pursued to compute these highly non-trivial amplitudes. In this respect, I will argue that it is possible to tackle and tame the seemingly intractable algebraic complexity at each step of the calculation.

I will then illustrate the salient features of the final results and discuss their relevance in view of current and future phenomenological studies at hadron colliders.

Significance

References

Experiment context, if any

Primary author: DEVOTO, Federica

Presenter: DEVOTO, Federica

Session Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods

Track Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods