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## 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

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**Presenter:** DEVOTO, Federica

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

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