



Contribution ID: 157

Type: 20 minutes talk

Decomposition of Triple Collinear Splitting Functions

Thursday, 16 December 2021 16:30 (30 minutes)

In the kinematic region where three particles are collinear, the multi-parton scattering amplitudes factorise into a product of a triple collinear splitting function and a multi-parton scattering amplitude with two fewer particles. These triple collinear splitting functions contain both iterated single unresolved contributions, and genuine double unresolved contributions. We make this explicit by rewriting the known triple collinear splitting functions in terms of products of two-particle splitting functions, and a remainder that is explicitly finite in all single unresolved limits.

Could you please give the most relevant category for your talk?

QCD

Will you be pre-recording your talk?

No

Are you happy for your talk to be recorded?

No

Would you be interested in receiving feedback on your presentation?

Yes

Primary authors: GLOVER, Nigel (IPPP, Durham University); BRAUN-WHITE, Oscar (IPPP Durham University)

Presenter: BRAUN-WHITE, Oscar (IPPP Durham University)

Session Classification: Full-length talks