Contribution ID: 69

A Numerical Implementation of the LASS Subtraction Scheme

Wednesday, 11 September 2024 11:25 (25 minutes)

NNLO QCD corrections are indispensable for Today's and tomorrow's colliders. Several subtraction schemes are available in the literature. The LASS (Local Analytic Subtraction Scheme) as it is developed in Turin offers a possible way to obtain NNLO QCD predictions with this version of subtraction. Its simple analytical integrals make it tempting to generalize even to hadron collisions. Before this crucial step a proof-of-concept numerical implementation is needed for electron-positron collisions. In my talk I would like to give highlights of our effort to create the first numerical implementation of the scheme focusing on the contribution with double-parton emission.

Primary author: KARDOS, Adam (University of Debrecen)

Co-authors: CHARGEISHVILI, Bakar (University of Hamburg); BEVILACQUA, Giuseppe (NCSR "Demokritos"); MOCH, Sven-Olaf (Universität Hamburg); TROCSANYI, Zoltan (ELTE Eotvos Lorand University)

Presenter: KARDOS, Adam (University of Debrecen)

Session Classification: Subtraction, slicing and loop/tree duality

Track Classification: Subtraction, slicing and loop/tree duality