

Contribution ID: 145 Type: Poster

Differential Reduction Techniques for the Evaluation of Feynman Diagrams

Stable reduction reduction methods will be important in the evaluation of high-order perturbative diagrams appearing in QCD and mixed QCD-electroweak radiative corrections at the LHC. We describe differential reduction techniques in the hypergeometric function representation of Feynman diagrams and present some representative examples.

Primary author: Prof. YOST, Scott (The Citadel)

Co-authors: Prof. WARD, B.F.L. (Baylor University); Prof. KNIEHL, Bernd (II. Inst. Theoretische Phyzik,

Hamburg); Dr KALMYKOV, Mikhail (II. Inst. Theoretische Phyzik, Hamburg)

Presenter: Prof. YOST, Scott (The Citadel)

Track Classification: 03 - Perturbative QCD, Jets and Diffractive Physics