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Semi-Exclusive Double Drell-Yan factorization and GTMDs

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In this talk we show how to apply the SCET formalism to factorize Double Drell-Yan process involving a pion and a proton, with four leptons and the proton in the final state. We will show how the factorization of the cross-section leads to the appearance of a Double TMD and two GTMDs. Additionally, we will show how the subsequent zero-bin subtraction leads to the appearance of a new Soft Factor and how the rapidity divergences work out at one-loop level.

Primary author: GUTIÉRREZ GARCÍA, Patricia Andrea (Complutense University of Madrid)

Presenter: GUTIÉRREZ GARCÍA, Patricia Andrea (Complutense University of Madrid)

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