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Photon splitting corrections to soft-photon resummation

Tuesday 25 April 2023 10:30 (20 minutes)

In this talk I present an algorithm to add photon-splitting corrections
to the Yennie-Frautschi-Suura-style soft-photon resummation available in
the Sherpa Monte-Carlo event generator.
Then, I introduce different lepton dressing strategies which incorporate
further leptons and hadrons in addition to the customary photons,
and discuss their sensitivity to dressing parameters such as the
cone size. Results are presented for the academic case of on-shell Z decay as well
as Drell-Yan lepton production at a proton-proton collider.

Presenter: FLOWER, Lois

Session Classification: Student and Postdoc talks