

# Collinearly Enhanced YFS MC Approach to Precision High Energy Collider Physics

*Friday 19 July 2024 20:45 (15 minutes)*

We improve the YFS IR resummation theory so that it includes all of the attendant collinear contributions which exponentiate. The attendant new resummed contributions are shown to agree with known results from the collinear factorization approach. We argue that they improve the corresponding precision tag for a given level of exactness in the respective YFS hard radiation residuals as the latter are realized in the YFS MC approach to precision high-energy collider physics.

## Alternate track

1. Formal Theory

## I read the instructions above

Yes

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**Session Classification:** Poster Session 2

**Track Classification:** 04. Top Quark and Electroweak Physics