Contribution ID: **19** Type: **not specified**

Linear power corrections to hadron collider processes with top-quarks

Tuesday, October 17, 2023 11:30 AM (30 minutes)

In this talk the $\mathcal{O}(\Lambda_{QCD})$ corrections to processes with top-quarks will be discussed. A general method to compute these corrections based on renormalon calculus and the Low-Burnett-Kroll theorem will be discussed. We will show that linear power corrections vanish for the total cross-section. We also compute such corrections to top-quark kinematic distributions and show that they can be as large as a percent in certain kinematic regions.

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Session Classification: Young Scientists Talks