



Contribution ID: 344

Type: **not specified**

## Exploring improvements to the fitting of the strong coupling constant through means of jet substructure techniques

*Tuesday 17 April 2018 14:25 (25 minutes)*

Over the years many different types of fits for the strong coupling constant have been performed. However one high precision result that currently significantly differs from the world average are results from event shapes at electron positron colliders. One possible source for the difference in these results could be the degeneracy between the fit of the strong coupling constant and non-perturbative parameter. In this talk I will explore the possibility to apply jet substructure techniques, specifically soft drop, in order to break the degeneracy between the non-perturbative parameter and the strong coupling constant.

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**Session Classification:** WG4: Hadronic and Electroweak Observables

**Track Classification:** WG4: Hadronic and Electroweak Observables