**Istituto Nazionale di Fisica Nucleare Laboratori Nazionali di Frascati**

Avviso di Seminario Teorico

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**Sudakov resummation of thrust distribution in electron-positron annihilation**

We present a resummed QCD calculation of the thrust distribution in electron-positron annihilation in the back-to-back region up to N^4LL accuracy, matched to fixed-order results up to NNLO. We perform the resummation of the large Sudakov logarithms in the Laplace-conjugated space, and we show that the results differ significantly from those obtained through resummation in thrust space. We include non-perturbative corrections using an analytic hadronization model that depends on two free parameters. Finally, we present a comparison of our predictions with experimental data at the Z-boson peak, and we extract a value for the QCD coupling that is fully consistent with the world average.

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## Venerdi’ 21/3 ore 11:00 Aula A1

https://agenda.infn.it/event/45996/

L'invito è esteso a tutto il personale interessato, che è caldamente invitato a partecipare.