Contribution ID: 21 Type: Hard QCD and EW

Higher-order corrections for the three-jet rate in electron-positron annihilation using the (anti)-kt algorithm

Tuesday, 29 August 2017 17:00 (30 minutes)

We present our next-to-next-to-leading order result performed in the CoLoRFulNNLO subtraction scheme for the three jet rate in electron-positron annihilation into three jets using the exclusive kt clustering algorithm. Results matched with next-to-double logarithmic resummation are also shown compared to OPAL data. In addition we present our predictions using the anti-kt algorithm at next-to-next-to-leading order in perturbation theory matched with next-to-double logarithmic resummed prediction for the first time.

Primary authors: KARDOS, Adam (University of Debrecen); SOMOGYI, Gabor (University of Debrecen (HU)); SZŐR, Zoltán (University of Debrecen); TROCSANYI, Zoltan Laszlo (University of Debrecen (HU))

Presenter: SZŐR, Zoltán (University of Debrecen) **Session Classification:** Hard QCD and EW