Contribution ID: **1** Type: **not specified**

Were there any anomalies in the gluon jets in ALEPH?

Tuesday 27 August 2024 11:00 (45 minutes)

According to the Abelian decomposition of QCD, there is a theoretical prediction that gluons can be classified into two types, each exhibiting distinct experimental signatures. The optimal setting for experimental verification of this theory is a clean environment such as the LEP, rather than the LHC. We have investigated whether there were any anomalies observed already in the gluon jets recorded in the ALEPH experiment and revisited the analyses with the archived ALEPH data. In this presentation, we will show our latest updates on our study on the gluon jet properties in ALEPH.

Author: PARK, Inkyu (University of Seoul, Department of Physics (KR))

Presenter: PARK, Inkyu (University of Seoul, Department of Physics (KR))