



Contribution ID: 146

Type: **Parallel Session Talk**

High-z proton and kaon multiplicity ratios on deuteron target

Tuesday 9 April 2019 14:00 (17 minutes)

Recently COMPASS has reported unexpected results concerning K^- over K^+ multiplicity ratio for kaons produced in DIS with a large fraction of the virtual-photon energy, PLB 786 (2018) 390. The obtained ratio is significantly below the lower limit given by NLO pQCD.

In order to provide more information about the observed phenomenon we will show for the first time results concerning p bar over p multiplicity ratio for protons produced in DIS with a large fraction of the virtual-photon energy. In addition the kaon multiplicity ratio will be presented in an extended kinematic phase-space with respect to the one used in the aforementioned paper.

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Session Classification: WG6: Spin and 3D structure

Track Classification: WG6: Spin and 3D structure