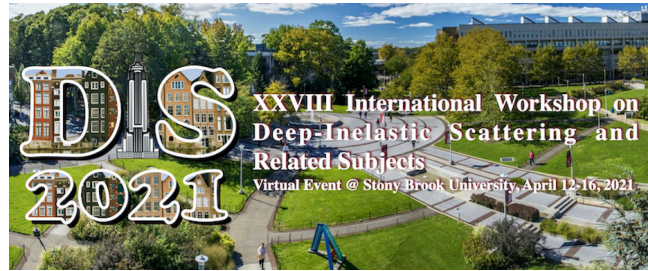


XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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Measurements of inclusive cross-sections and azimuthal asymmetries of light charged hadrons at Belle

Thursday, 15 April 2021 11:12 (18 minutes)

We report new measurements of the production cross sections of pairs of charged pions and kaons as a function of their fractional energies as well as azimuthal asymmetries of back-to-back pairs of charged and neutral mesons. The former measurement aims at either identifying dihadron cross sections in terms of single-hadron fragmentation functions, or providing a means to characterise the transverse momentum created in the fragmentation process, two different fractional-energy definitions are used and compared to the conventional fractional-energy definition reported earlier.

The latter measurement is sensitive to the transverse polarization dependent Collins fragmentation function, and extends previous measurements to neutral mesons.

The measurements were performed with data collected at or near the $\Upsilon(4S)$ resonance with the Belle detector at the KEKB asymmetric-energy e^+e^- collider.

Precision measurements of light quark fragmentation at Belle, such as the ones presented, will be an important input for current and future SIDIS programs, e.g. at the EIC.

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