

DIS 2015

XXIII International Workshop on  
Deep-Inelastic Scattering and  
Related Subjects

Dallas, Texas  
April 27 – May 1, 2015



Contribution ID: 151

Type: not specified

## Charged kaon multiplicities in semi-inclusive deep-inelastic scattering from COMPASS

*Tuesday, 28 April 2015 12:00 (20 minutes)*

The latest measurements of  $K^\pm$  multiplicities in semi-inclusive deep-inelastic scattering from the COMPASS experiment at CERN are presented. The data were collected using a 160 GeV muon beam incident on an isoscalar  ${}^6\text{LiD}$  target. The large statistics collected cover a wide kinematic range and the results are presented in 3-dimensional bins of  $x_{Bjorken}$ ,  $y$ , and  $z$ . These measurements are sensitive to both the strange quark distribution function  $s(x)$  and to the strange quark fragmentation functions. They will serve as inputs to global QCD fits to constrain quark fragmentation functions.

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**Session Classification:** WG6 Spin Physics

**Track Classification:** WG6 Spin Physics