

# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 658

Type: **Recorded Flash Talk**

## Medium-induced modification of kaon spectra measured in semi-inclusive DIS at HERMES

The predicted high sensitivity of the nuclear modification factor for  $K^-$  in SIDIS due to the QCD based effect of medium-induced flavour conversion in the fragmentation function is studied at the HERMES experiment. Unlike  $\pi^+$ ,  $\pi^-$  and  $K^+$ , nuclear modification factor for  $K^-$  is expected to increase at high values of the Bjorken variable  $x_B$  and hadron fractional energy  $z$ . The experimental signature of this phenomenon is an enhanced  $K^-$  nuclear modification factor compared with those of  $K^+$  for the high  $x_B$  and  $z$  range. The  $z$  spectra of nuclear attenuation ratios for charged kaons in different slices of  $x_B$  extracted on Ne, Kr and Xe targets will be presented and discussed.

**Primary author:** NAZARYAN, Gevorg (A. Alikhanyan National Science Laboratory)

**Presenter:** NAZARYAN, Gevorg (A. Alikhanyan National Science Laboratory)

**Session Classification:** Recorded Flash Talk

**Track Classification:** QCD with Heavy Flavors and Hadronic Final States