

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



Contribution ID: 56

Type: **not specified**

## Multidimensional Hadron Attenuation

*Wednesday 28 March 2012 14:30 (20 minutes)*

Hadron multiplicity ratios in semi-inclusive deep-inelastic scattering have been measured on neon, krypton and xenon targets relative to deuterium using the 27.6 GeV beam of HERA at the HERMES experiment. They are presented for pions ( $\pi^+$ ,  $\pi^-$ ), kaons ( $K^+$ ,  $K^-$ ), protons and anti-protons as a function of the virtual photon energy  $\nu$ , its virtuality  $Q^2$ , the fractional hadron energy  $z$  and the transverse hadron momentum  $p_t$  with respect to the direction of the virtual photon. Dependences are presented in a two-dimensional representation, in the form of detailed binning over one variable and three slices over the other variable. These results may help to understand some aspects of the hadronization process.

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**Session Classification:** Hadronic final states

**Track Classification:** Hadronic final states