

Abstract Submitted
for the APR14 Meeting of
The American Physical Society

Strangeness in the proton¹ MARY ALBERG, Seattle University and University of Washington — Both perturbative and non-perturbative mechanisms contribute to strangeness in the proton sea. We have developed a hybrid model in which non-perturbative contributions are calculated in a meson cloud model which expands the proton in terms of meson-baryon states, and perturbative contributions are calculated in a statistical model which expands the proton in terms of quark-gluon states. The perturbative contributions are represented in the parton distributions of the “bare” hadrons in the meson cloud. We compare our results to the recent experimental data of ATLAS and HERMES.

¹This research has been supported in part by NSF Award 1205686.

Mary Alberg
Seattle University and University of Washington

Date submitted: 09 Jan 2014

Electronic form version 1.4