



PHYSICS AND ASTRONOMY SEMINAR

Tony Signal

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“Symmetry Breaking in Strange Quark and Antiquark Distributions”

Abstract

I give an overview of calculations of strange quark and antiquark distributions of the nucleon using the meson cloud model. This progress parallels that of the meson cloud model, which is now a useful theoretical basis for understanding non-perturbative symmetry breaking among parton distribution functions. I examine the breaking of symmetries involving strange quarks and antiquarks, including quark - antiquark symmetry in the sea, $SU(3)$ flavor symmetry and $SU(6)$ spin-flavor symmetry, and also consider a perturbative contribution to asymmetries.

Tuesday, November 27, 2012

2:00 p.m.

Elliott Building 062