

APR14-2014-020072

Abstract for an Invited Paper
for the APR14 Meeting of
the American Physical Society

Hadron polarizabilities: what do they tell us about hadron structure?

D. HORNIDGE, Department of Physics, Mount Allison University

A central problem of modern physics research is the solution to QCD in the non-perturbative regime. One method of testing QCD in this low-energy region is by measuring certain structure constants of hadrons—called polarizabilities—that show particular promise of allowing a direct connection to the underlying quark/gluon dynamics through comparison to modern QCD-inspired model calculations, and to solutions of QCD done computationally on the lattice. This talk will give an overview of the current state of both theory calculations and experimental measurements of hadron polarizabilities.