



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2660

Type: Oral (Non-Student) / Orale (non-étudiant(e))

Compton Scattering and the Nucleon Polarizabilities

Wednesday 5 June 2019 14:15 (15 minutes)

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 recent and upcoming measurements to obtain the polarizabilities of both the proton and neutron.

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Session Classification: W2-9 Hadronic Physics (DNP/DTP) | Physique hadronique (DPN/DPT)

Track Classification: Nuclear Physics / Physique nucléaire (DNP-DPN)