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Electro-Excitation Transition Form Factors of the Proton

Wednesday 20 August 2025 08:30 (25 minutes)

Just as the study of the hydrogen atom and its excited states deepened our understanding of electromagnetic interactions, investigating the internal structure of the proton and its electro-excitation transition form factors is essential for advancing our knowledge of the strong interaction. Can this be achieved directly from the fundamental equations of motion in terms of quarks and gluons? This talk presents an overview of recent progress in computing these form factors and highlights complementary experimental efforts at Jefferson Lab through the CLAS experiment. Where possible, comparisons are made with experimental data and predictions from alternative theoretical approaches.

Presenter: BASHIR, Adnan

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