

Exploring the origin of mass using resonance electroproduction

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One of the greatest challenges within the Standard Model is to discover the source of visible mass. Indeed, this is the focus of a “Millennium Problem”, posed in 2000 by the Clay Mathematics Institute. The answer is hidden within quantum chromodynamics; and it is quite likely that revealing the origin of mass will also explain the nature of confinement. In addressing these issues, this presentation will reveal insights that have recently been drawn using contemporary methods to solve the continuum bound-state problem and how they have been informed and enabled by modern experiments on nucleon-to-resonance transition form factors.

Primary author: ROBERTS, Craig (Argonne National Laboratory)

Presenter: ROBERTS, Craig (Argonne National Laboratory)

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