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Structure of the Energy-Momentum Tensor and Applications

Monday, 30 May 2016 15:00 (30 minutes)

The probably most fundamental information about a particle is contained in the matrix elements of its energy momentum tensor which are accessible via GPDs. The spin decomposition of the nucleon and Ji sum rule is just one example. Less prominent but equally important information is encoded in the stress tensor related to the spatial components of the energy-momentum tensor which shows in detail how the internal forces balance to form a stable bound state. This provides not only unique insights on hadronic structure. It also leads to unexpected fascinating new applications to hadron spectroscopy which allow us to formulate new interpretations of the charmonium-nucleon recently discovered by LHCb. Recent progress is reviewed.

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