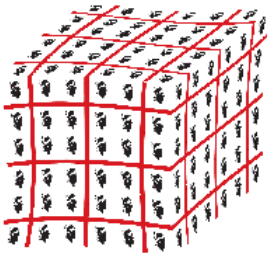

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Hadron Form Factors at Large Transfer Momentum (I)

Monday, 14 June 2010 15:10 (20 minutes)

We report a recent breakthrough in lattice QCD calculations of hadron form factors at large momentum transfer. Conventional lattice form-factor calculations typically reach about 2.5 GeV^2 or less, but in this work the transfer momentum is pushed as high as 6 GeV^2. Our approach can be applied to isotropic lattices and lattices with smaller lattice spacing to calculate even larger-$Q2$ form factors.

We will discuss the methodology and demonstrate results for the nucleon and pion from 2+1-flavor anisotropic clover lattices. These measurements could give important theoretical input to experiments, such as those of JLab's 12-GeV program, and provide insight into hadronic structure.

Please, insert your presentation type (talk, poster)

talk

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