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Hadron Form Factors at Large Transfer Momentum (II)

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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- Q^2 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.

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talk

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