

Abstract Submitted
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Flavor decomposition of the nucleon form factor F_1 at very large momentum transfer BOGDAN WOJTSEKHOWSKI, TJNAF, SERGEY ABRAHAMYAN, YerPhI, SEAMUS RIORDAN, UMass, THE SUPER BIGBITE COLLABORATION — At large momentum transfer dominance of the Sachs magnetic form factor, G_M , in the Dirac form factor, F_1 , allows determination of the F_1 flavor structure of the nucleon from the measurement of the cross section ratio of the $D(e,e'n)$ and $D(e,e'p)$ reactions. We will present an analysis of the range of momentum transfer up to 18 GeV^2 which could be experimentally accessed at JLab Hall A with the future experiments. A potential zero crossing of the down quark contribution to the proton F_1 would be discussed in the framework of the GPDs.

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