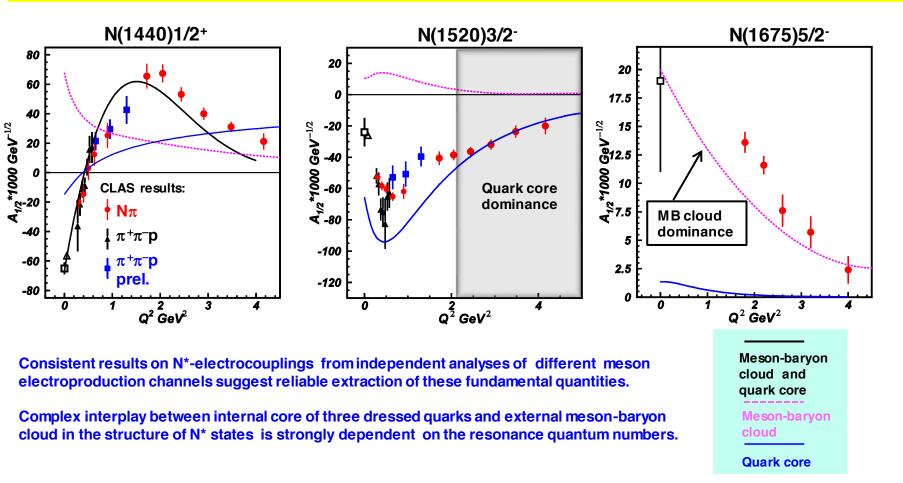
## The Need to Extend the Studies of N\* Structure

Studies of N\*-electrocouplings over a broad range of photon virtuality Q<sup>2</sup> offer unique information on the non-perturbative strong interaction that determines the structure of different excited nucleons.

Insight on N\* structure from the CLAS@JLAB data on exclusive meson electroproduction (Review papers: I.G. Aznauryan & V.D. Burkert, Progr. Part. Nucl. Phys. 67 (2012) 1; I.G.Aznauryan et al., Int. J. Mod. Phys. E22 (2013) 1330015).



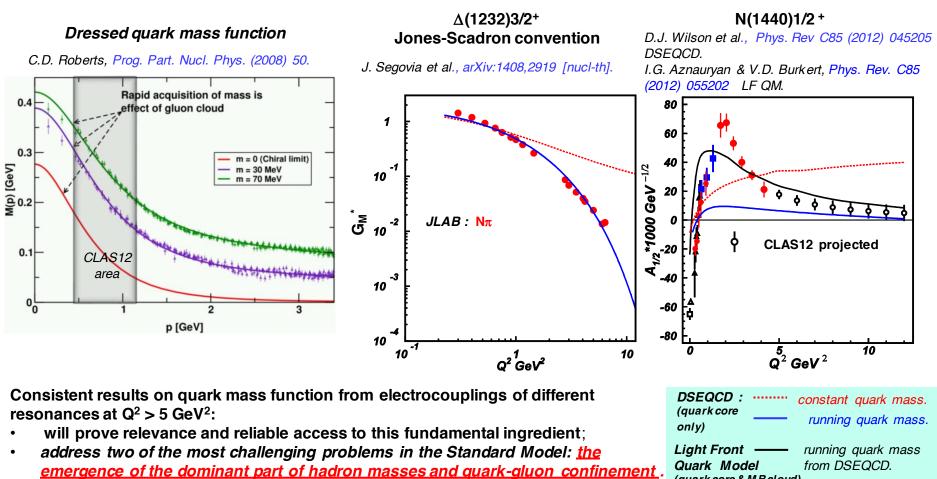
## • Growth of relative quark core contribution with Q<sup>2</sup> in gradual transition to <u>almost unexplored domain</u> <u>of quark core dominance at Q<sup>2</sup>>5.0 GeV<sup>2</sup>.</u>

Jefferson Pab

V.I.Mokeev, Joint Town Meeting on QCD, Temple University, September 13-15, 2014

## N<sup>\*</sup> Structure at High Photon Virtualities in Exploration of Strong Interaction

CLAS12 is the only facility foreseen in the world capable of determining electrocouplings of all prominent N\* at 5<Q<sup>2</sup><12 GeV<sup>2</sup>. For the first time, almost direct access to the quark core at the distances where the transition from quark-gluon confinement to perturbative QCD regime is expected.



## Studies of Nucleon Resonance Structure from the exclusive meson electroproduction experiments with CLAS12@JLAB offer an important contribution to the Long Range Plan.

Jefferson Pab

V.I.Mokeev, Joint Town Meeting on QCD, Temple University, September 13-15, 2014

(quark core & M B cloud)