

Parallel talk

Single  $n^0$  electro-production in the resonance region with CLAS

Kyungseon Joo (for the CLAS collaboration)

University of Connecticut 2152 Hillside Road, Storrs, CT 06269, USA

Universidad Técnica Federico Santa María, Valparaíso, Chile

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摘要

We report the analysis status of single  $n^0$  electroproduction in the resonance region to study the electromagnetic excitation of the nucleon resonances. The study is aimed at understanding of the internal structure and dynamics of the nucleon. The experiment was performed using an unpolarized cryogenic hydrogen target and 2.0 and 5.8 GeV polarized electron beam during the e1e and e1-6 run periods with CLAS at Jefferson Lab. The new measurements will produce a data base with high statistics and large kinematic coverage for the hadronic invariant mass ( $W$ ) up to 2.0 GeV in the momentum transfer ( $Q^2$ ) range of 0.3—6.0 GeV<sup>2</sup>. Preliminary results will be presented and compared with the various model calculations.

关键词 [nucleon resonances, electromagnetic transition form factors, nucleon structure](#)

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通讯作者:

Kyungseon Joo

作者个人主页:

Kyungseon Joo (for the CLAS collaboration)

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