Abstract Submitted
for the APR99 Meeting of
The American Physical Society

Sorting Category: G.3 (Experimental)

The πNN Form Factor $\mathbf{g_{\pi NN}(t)}$ LIMING QIN, Old Dominion University Norfolk, Virginia[1] — *for the Charged Pion Form Factor (F_π) Collaboration at the Thomas Jefferson National Accelerator Facility (E93021).* The πNN form factor $g_{\pi NN}(t)$ is important for an understanding of the structure of the nucleon and the pion. Recent theoretical models are in favor of a soft $g_{\pi NN}(t)$ form factor with a cut off mass Λ_π as low as 0.5 GeV in a monopole representation. This is compared to a value of 1.3 GeV obtained from the study of one boson exchange potential for the NN interaction. We studied the pion electroproduction off proton target at four Q^2 settings and separated the longitudinal and transverse cross sections. We used the longitudinal cross sections at the two low Q^2 settings, 0.6 and 0.75 $(\mathrm{GeV}/c)^2$, to determine the πNN form factor $g_{\pi NN}(t)$, assuming the dominance of the t-channel one pion exchange. We will present preliminary results and compare with theoretical predictions.

[1]This work is funded by DOE and NSF (USA), FOM (Netherlands), NSERC (Canada), and KOSEF (S. Korea)

[X] Prefer Oral Session
[ ] Prefer Poster Session

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Date submitted: December 2, 1998

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