## Abstract Submitted for the APR05 Meeting of The American Physical Society

Evidence for the  $\Theta^+$  from photoproduction on deuterium at SPring-8<sup>1</sup> KENNETH HICKS, T. MIBE, Ohio University, LEPS COLLABORATION — The first evidence for an exotic baryon pentaquark, with strangeness S=+1 known as the  $\Theta^+$ , was published by the LEPS collaboration from data collected at the SPring-8 facility in Japan using a carbon target. A second experiment using a deuterium target has been analyzed, giving higher statistics than the carbon data. The new results, using two different detection topologies, show a peak near 1535 MeV. Details of the analysis and statistical interpretation of the results will be presented.

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