

Abstract Submitted
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θ^+ Search with Quasi-Free Photoproduction in Deuterium
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CLAS COLLABORATION — The production of a possible exotic S=1 pentaquark
off a neutron is being investigated in CLAS at Jefferson Lab. Using a tagged photon
beam of energy up to 3.6 GeV incident on a 24 cm liquid deuterium target, the final
state $pK_s^0K^-(p)$ is produced and identified by reconstructing the K_s^0 from $\pi^+\pi^-$
and spectator proton in missing mass. Evidence for the photoproduction of θ^+K^-
and $\theta^+ \rightarrow pK_s^0$ is investigated, and a comprehensive description of the current status
of the analysis will be presented, including cuts, corrections, and backgrounds.

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