

Abstract Submitted
for the DNP08 Meeting of
The American Physical Society

Photoproduction of $\Lambda(1520)$ and interference effect in particle production CHANDRA NEPALI, MOSKOV AMARIAN, GAGIK GAVALIAN, Old Dominion University, CLAS COLLABORATION — The cross-sections and t-dependence of two decay channels: $\Lambda(1520) \rightarrow K^-p$ and $\Lambda(1520) \rightarrow \bar{K}^0n$ are investigated to unravel quantum mechanical interference between $\Lambda(1520)(K^-p)$ and $\phi(1020)(K^+K^-)$ decay modes, which is absent in $\Lambda(1520) \rightarrow \bar{K}^0n$ final state. The data set collected on hydrogen target in the photon energy range from 1.5 - 3.6 GeV on CLAS are used for this analysis.

Chandra Nepali
Old Dominion University

Date submitted: 29 Jun 2008

Electronic form version 1.4