

Abstract Submitted
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$\phi(1020)$ Photo-production in Neutral Decay Channel $\gamma p \rightarrow p' \phi \rightarrow p' K_S K_L$ HEGHINE SERAYDARYAN, ODU, CLAS COLLABORATION — Using photo-production data on hydrogen target collected with CLAS detector at Thomas Jefferson National Accelerator Facility the $\phi(1020)$ meson production cross-sections in the neutral decay channel $\phi \rightarrow K_S K_L$ is obtained for the first time. The measured cross-section shows difference from the charged channel decay ($\phi \rightarrow K_- K_+$). In this talk we present the cross-section and the t - slope for wide photon energy range $E = 1.6-3.6$ GeV. The spin-density matrix elements were extracted in Helicity and Gottfried-Jackson frames.

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