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Photoproduction of Φ(1020) meson in neutral decay mode $\gamma p \to \phi p \to p K_S K_L$ from CLAS HEGHINE SERAYDARYAN, Old Dominion University, CLAS COLLABORATION — Using photoproduction data on hydrogen target collected with CLAS detector at Thomas Jefferson National Accelerator Facility the $\phi(1020)$ meson production cross-sections and spin density matrix elements in the neutral decay mode $\phi \to K_S K_L$ are obtained for the first time. The preliminary results will be presented for photon energy range $E_\gamma = 1.6 - 2.6$ GeV. The measurements show that the Pomeron exchange mechanism is dominating at low momentum transfer, but this mechanism alone is not sufficient to describe data at high t. Here other processes, such as intermediate resonance exchanges, are changing the cross-section behavior.

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