Abstract Submitted
for the HAW09 Meeting of
The American Physical Society

\( \phi(1020) \) 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 \( E= 1.6-3.6 \text{ GeV} \). The spin-density matrix elements were extracted in Helicity and Gottfried-Jackson frames.