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Light Vector Meson Photoproduction off of <sup>1</sup>H at Jefferson Lab and  $\rho$ - $\omega$  Interference in the Leptonic Decay Channel MICHAEL PAOLONE, CHADEN DJALALI, University of South Carolina- Columbia SC, RAKHSHA NASSERIPOUR, George Washington University- Washington DC, DENNIS WEY-GAND, Thomas Jefferson National Accelerator Facility- Newport News VA, MIKE WOOD, Canisius College- Buffalo NY, CLAS COLLABORATION — Recent studies of light vector meson production in heavy nuclear targets has generated interest in  $\rho$ - $\omega$  interference in the leptonic decay channel. An experimental study of the elementary process provides valuable input for theoretical models and calculations. In experiment E04-005, high statistics photoproduction data has been taken in Jefferson Lab's CLAS detector with tagged photon energies up to 5 GeV incident on a LH<sub>2</sub> target. Preliminary results of the  $e^+e^-$  decay channel, with emphasis on the  $\rho$ - $\omega$  interference region, will be shown and compared to similar experimental data of photoproduction off of heavier nuclear targets (<sup>2</sup>H to Pb) from Jefferson Lab experiment E01-112.

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