A PWA of $p\omega$ in photoproduction using CLAS MIKE WILLIAMS,
Carnegie Mellon University, CLAS COLLABORATION — We will present results
of a partial wave analsysis, (PWA), on the reaction $\gamma p \rightarrow p\omega$ with the ω decaying to
$\pi^+\pi^-\pi^\circ$. The decay of the ω into its three pseudoscalar final state provides information on the polarization of the ω which in turn provides an additional handle in the
PWA analysis. These data are analalyzed using a covariant tensor formalism which
provides a natural mechnaism for including both t-channel contributuions as well as
background terms in the PWA. The results of such an analysis are a decomposition
of into the s-wave contributions to the final state. The mass dependence of the
intensity and phase of these partial waves can be used to deduce information about
the baryon resonances that couple to $p\omega$ final states.

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