

Partial Wave Analysis Project

Exercise to study $\gamma p \rightarrow \pi^+ \rho^0 n \rightarrow \pi^+ \pi^+ \pi^- n$

- Simulation of the detector to understand acceptance issues
- Exercise the PWA machinery on simulated data.
(Also being used to examine Hall B – CLAS Data)
- Understand the role of linear polarization in the fits.
Quantify the needed degree of polarization
What if any is the trade off between statistics/polarization
- Understand background contaminations.

Currently two different approaches:

- Full PWA code based on E852 software, and modified for photons.
- Simplified picture looking at angular distributions.