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Polarization of Target in Crystal Ball Calorimeter JENNIFER KUCZYNSKI, George Washington University, WILLIAM BRISCOE, George Washington University, ANDREAS THOMAS, Johannes-Gutenberg University — A pion photo-production experiment is being conducted at MAMI-lab in Mainz, Germany. In Mainz I was working at the Mainz Microtron (MAMI) using a polarized tagged photon beam, a transversely polarized proton target, and the Crystal Ball calorimeter. The Crystal Ball can measure energy, position energy and timing at many angles. A butanol polarized target was used in the May/June run of the Crystal Ball experiment. Finding an accurate relaxation time for the polarization will be useful in determining a proper time for each experimental run.

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