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Charged-current multiple pion production using ν_μ in the PØD in the T2K experiment SCOTT DAVIS, University of Washington — The T2K experiment is a long-baseline, off-axis neutrino oscillation experiment designed to search for the appearance of ν_e in a ν_μ beam. The Pi-Zero Detector (PØD) of the T2K off-axis near detector (ND280) is used to measure properties of the neutrino beam and measure cross sections relevant to the beam's energy. As the PØD contains a variety of nuclei, we can measure the cross section of various production modes on several targets. At the beam energies of T2K, the production of multiple pions, of any type, from neutrinos is not well understood. I will present the status of an analysis method to measure the production of multiple (2 or greater) pions from a charged-current interaction with ν_μ.

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