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Partial Wave Analysis of the $\pi^0\pi^0$ System for the Reaction JEFFREY L. GUNTER, Indiana University, Bloomington, for the E852 Collaboration (Brookhaven, Indiana, IHEP Protvino, Massachusetts Dartmouth, Moscow State, Northwestern, Notre Dame and Rensselaer) — The 1994 data set from experiment E852 at Brookhaven National Laboratory contains approximately 180,000 events identified as $\pi^- p \rightarrow \pi^0\pi^0 n$. A partial wave analysis of these events in several momentum tranfer regions is presented. Also included is a phase-shift analysis in the smallest momentum transfer region.

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