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Dalitz Plot Analysis of the $\eta\pi\pi$ System for the Reaction $\pi^- p \to \eta\pi\pi n$ at 18 GeV/c[1] S. TEIGE, *Indiana University, Bloomington for the E852 Collaboration (Brookhaven, Indiana, IHEP Protvino, Massachusetts Dartmouth, Moscow State, Northwestern, Notre Dame, Rensselaer)* — The $\eta\pi\pi$ effective mass spectrum has been decomposed into the contributions associated with two-body intermediate states. The intermediate states considered were $a_0(980)\pi$, $\rho\eta$, $a_2(1320)\pi$ and $f_2(1275)\eta$. Resonances in these decomposed structures are observed and identified. The analysis has been carried out as a function of momentum transfer.

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Special instructions: One of nine E852 abstracts to be presented sequentially if possible.

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