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Experimental Search for Exotic Mesons[1] NEAL M. CASON, *University of Notre Dame for the E852 Collaboration (Brookhaven, Indiana, IHEP Protvino, Massachusetts Dartmouth, Moscow State, Northwestern, Notre Dame, Rensselaer)* — Partial wave analyses of the $\eta\pi^-$, $\eta\pi^-\pi^+$, $\eta\prime\pi^-$, $f_1\pi^-$, and $\eta\eta$ systems have been carried out in order to search for non-$q\overline{q}$ states expected within the framework of QCD. Manifestly exotic ($J^{PC} = 1^{-+}$) enhancements are observed, as is structure in partial waves of interest in glueball searches.

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