Exotic Meson Signal in the $\eta\pi^-$ System in $\pi^- p$ Interactions at 18 GeV/c

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Abstract. The $\eta\pi^-$ system has been studied in the reaction $\pi^- p \to \eta\pi^- p$ at 18 GeV/c. A mass-dependent analysis of the results of a partial-wave analysis shows that the asymmetry observed in the angular distribution can be understood in terms of interference between the $a_2(1320)$ and an exotic meson with $J^{PC} = 1^{-+}$.