

PHOTOPRODUCTION OF HYBRID MESONS¹

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Prospects for photoproducing hybrid mesons at CEBAF are discussed, based on recent model results and experimental indications of possible hybrids. One excellent opportunity appears to be a search for $I = 1$, $J^{PC} = 2^{+-}$ “ b_2^0 ” hybrids in $(a_2\pi)^0$ through diffractive photoproduction. Other notable possibilities accessible through π^+ or π^0 exchange photoproduction are $I = 1$ 1^{-+} “ π_1^+ ” in $f_1\pi^+$, $(b_1\pi)^+$, and $(\rho\pi)^+$; $\pi_J^+(1770)$ in $f_2\pi^+$ and $(b_1\pi)^+$; $\pi^+(1800)$ in $f_0\pi^+$, $f_2\pi^+$, $\rho^+\omega$, and $(\rho\pi)^+$; a_1 in $f_1\pi^+$ and $f_2\pi^+$; and ω in $(\rho\pi)^0$, $\omega\eta$, and K_1K .

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