

Abstract Submitted
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Study of B -meson decays to an ω meson and a light vector meson

EVAN W. THOMAS, University of Colorado, BABAR COLLABORATION — We present measurements of branching fractions, polarization, and CP -violation charge asymmetries for B -meson decays to two-body final states containing an ω meson and a low-mass $\pi\pi$ or $K\pi$ system. The analysis was performed on a data sample consisting of 465×10^{-6} $B\bar{B}$ pairs collected with the $BA\ BAR$ detector at the PEP-II asymmetric-energy B Factory at SLAC. We obtain improved measurements for the previously observed decay $B \rightarrow \omega\rho^+$, and evidence or observation of new modes with ω and $K^*(892)$, $K_0^*(1430)$, and $K_2^*(1430)$.

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