

Abstract Submitted
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Angular analysis of $B \rightarrow J/\psi K^*$, $B \rightarrow \psi(2S)K^*$ and $B \rightarrow \chi_{c1}K^*$ EM-MANUEL LATOUR, Ecole Polytechnique, Laboratoire Leprince-Ringuet, BABAR COLLABORATION — We present the angular analysis of $B \rightarrow J/\psi K^*$, $B \rightarrow \psi(2S)K^*$ and $B \rightarrow \chi_{c1}K^*$, using 209 fb^{-1} data of the BaBar detector at the PEP-II asymmetric-energy e^+e^- storage rings at SLAC. This angular analysis aims at measuring the decay transversity amplitudes in absolute value and strong phases. This allows to probe the hadronic form factor models of the Factorization scheme in color-suppressed modes. This study represents an update with increased luminosity for $B \rightarrow J/\psi K^*$ decays, the first BaBar measurement in $B \rightarrow \psi(2S)K^*$ decays, and the first measurement ever in $B \rightarrow \chi_{c1}K^*$ decays.

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