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Time-dependent Dalitz analysis of $B^0 \to K^0\pi^+\pi^-$ ALEJANDRO PEREZ, University of Paris VI and VII, BABAR COLLABORATION — We present preliminary results of a maximum-likelihood, time-dependent Dalitz-plot analysis of charmless hadronic B^0 decays to the $K^0\pi^+\pi^-$ final state, from data corresponding to an integrated on-resonance luminosity of approximately 350 fb^{-1} recorded by the BaBar experiment at the SLAC PEP-II asymmetric-energy B Factory from 1999 to 2006. We measure decay amplitudes and phases for the intermediate resonance states, and extract time-dependent CP asymmetries for the $\rho^0 K^0$ and $f_0 K^0$ intermediate states, and direct CP asymmetries for $K^{*+}\pi^-$.

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