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Study of three-body charmonium decays at BABAR

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We study the reaction $e+e--> gamma_ISR$ J/psi, where J/psi -> pi+ pi- pi0, J/psi -> K+ K- pi0, and KS K+ pi- using events obtained from the Initial State Radiation process. We measure the relative J/psi branching fraction and perform a Dalitz plot analysis of both J/psi decay modes using an isobar and a Veneziano model. We present also an analysis of the process gamma gamma -> K anti-K pi. We observe the decays $eta_c -> K_S$ K+- pi-+ and $eta_c -> K$ F bi0 and perform a Dalitz analysis of both eta_c decay modes. We also extract the mass dependent K_pi S-wave amplitude and phase using a model-independent partial wave analysis approach.

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