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## Dalitz plot analysis of three-body charmonium decays in BaBar.

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We study the reaction e+ e- -> gamma\_ISR J/psi, where J/psi -> pi+ pi- pi0 and J/psi -> K+ K- pi0, 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 the isobar and Veneziano model. We study the process gamma gamma -> K anti-K pi. We observe the decays eta\_c -> Ks K+- pi-+ and eta\_c -> K+ K- pi0 and perform a Dalitz analysis of both eta\_c decay modes. We also extract the mass dependent Kpi amplitude and phase using the model-independent partial wave analysis approach.

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