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

Monday, 18 May 2015 11:30 (30 minutes)

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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