

Dalitz plot analysis of three-body charmonium decays at BaBar

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We perform Dalitz plot analyses of J/ψ three-body hadronic decays to $\pi^+\pi^-\pi^0$, $K^+K^-\pi^0$ and $K_S^0K^\pm\pi^\mp$ using the isobar and Veneziano models. The J/ψ is produced through the Initial-State-Radiation process. We also perform Dalitz plot analyses of η_c three-body hadronic decays to $K^+K^-\pi^0$ and $K_S^0K^\pm\pi^\mp$, where the η_c is produced in two-photon interactions. An isobar model is used, as well as a Model Independent Partial Wave Analysis which allows to extract the amplitude and phase of the $K\pi$ S-wave up to a mass of 2.5 GeV.

Primary author: Prof. PALANO, Antimo (INFN and University of Bari)

Presenter: Prof. PALANO, Antimo (INFN and University of Bari)

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