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Dalitz plot analyses of three body charmonium decays and study of $\Upsilon(1S)$ radiative decays in 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. We study the $\Upsilon(1S)$ radiative decays to $\gamma\pi^+\pi^-$ and γK^+K^- using data recorded at center-of-mass energies at the $\Upsilon(2S)$ and $\Upsilon(3S)$ resonances. Branching fraction measurements and spin-parity analyses are reported for all the resonances observed in the mass spectra.

Collaboration name

This abstract is submitted on behalf of the BaBar Collaboration.

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