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Two-photon collisions at Belle

Thursday 5 July 2012 15:30 (15 minutes)

The invariant mass spectrum of the $\eta'\pi^+\pi^-$ final state produced in two-photon collisions is obtained using 673 fb^{-1} of data on and off the $\Upsilon(4S)$ collected with the Belle detector at the KEKB asymmetric-energy e^+e^- collider. The η_c mass, width and the product of the two-photon width and the branching fraction of the decay into $\eta'\pi^+\pi^-$ are measured. We also report the first evidence for the $\eta(1760)$ decays to $\eta'\pi^+\pi^-$. From a fit of the mass spectrum with the coherent $X(1835)$ and $\eta(1760)$ resonances, we set a 90% confidence level upper limit on the product $\Gamma_{\gamma\gamma}calB$ for the $X(1835)$.

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