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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  $673 \text{ fb}^{-1}$  of data on and off the  $\Upsilon(4S)$  collected with the Belle detector at the KEKB asymmetric-energy  $e^+e^-$  collider. The  $\eta_c$  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  $\Gamma_{\gamma\gamma} \text{cal}B$  for the  $X(1835)$ .

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