## **Dark Forces at Accelerators**



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## U boson search in phi dalitz decays with KLOE

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We have searched for a new neutral gauge vector boson (U boson) in phi(1020) to eta e+e- decays, using about 1.8 fb-1 of data collected by the KLOE detector. The present analysis is based on an identication of the eta meson by its decays into three neutral pions, which provides a sample about twice larger than the one used in our previously published result. The limit on U boson production is improved accordingly.

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