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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  $\phi(1020) \rightarrow \eta e^+e^-$  decays, using about  $1.8 \text{ fb}^{-1}$  of data collected by the KLOE detector. The present analysis is based on an identification 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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