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Study of tau-pair production with the ZEUS detector at HERA

Content :

A search for events containing two high-transverse-momentum tau leptons has been performed with the ZEUS detector at HERA, using the data sample collected between 2004 and 2007, corresponding to an integrated luminosity of 0.36 fb⁻¹. At least one of the tau candidates is required to decay hadronically, while the second tau is required to decay either into an electron or into hadrons. The number of observed tau pairs is compared to the predictions from the Standard Model, where the largest contribution is expected from Bethe-Heitler interactions.

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Comments :

These results are presented on behalf of the ZEUS Collaboration