

ICHEP2012



Contribution ID: 139

Type: **Parallel Sessions**

## Study of tau-pair production at HERA

*Thursday 5 July 2012 17:00 (15 minutes)*

A study of events containing two tau leptons with high transverse momentum has been performed with the ZEUS detector at HERA, using a data sample corresponding to an integrated luminosity of  $0.33 \text{ fb}^{-1}$ . The tau candidates were identified from their decays into electrons, muons or hadronic jets. The number of tau-pair candidates has been compared with the prediction from the Standard Model, where the largest contribution is expected from Bethe-Heitler processes. The total visible cross section was extracted. Standard Model expectations agree well with the measured distributions, also at high invariant mass of the tau pair.

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**Session Classification:** TR 12 - Formal Theory Development & TR 1 - The Standard Model

**Track Classification:** Track 1 - The Standard Model and EW Symmetry Breaking - Higgs Searches