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Evidence for $Z \rightarrow \tau^+ \tau^-$ Production in 7 TeV proton-proton Collisions

The reconstruction of tau leptons in a hadronic environment can be challenging, yet is important for many searches for new particles as well as studies of standard model processes. The production of Z bosons decaying subsequently into tau pairs serves as an important benchmark for tau reconstruction. We describe tau reconstruction in CMS and present evidence for Z bosons decaying into tau pairs, for proton-proton collisions at 7 TeV.

Primary author: Dr LUSITO, Letizia (Universita & INFN, Bari; Cern)

Presenter: Dr LUSITO, Letizia (Universita & INFN, Bari; Cern)

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