

Reconstructing the rest frame of tau+tau- resonances at the LHC

At LHC energies bosons such as Z and Higgs bosons will be produced with a large boost wrt. the detector frame. Due to the escaping neutrinos in the tau decay, reconstructing the rest frame of such a heavy boson decaying into a pair of taus is highly non-trivial. I will present a new and simple method for rest frame reconstruction that works for all event topologies and for a large fraction of events can be applied without using any information about the missing transverse energy in the event. Finally some applications of the rest frame reconstructions will be shown.

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