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RESOLVING THE DILEPTONIC tt̄ COMBINATORIAL PROBLEM

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Measurement of Top quark properties takes advantage of the cleanness of the dilepton channel of top quark pair production. However, it is challenging to reconstruct the full final state kinematically due to the missing transverse momentum arising from two neutrinos, and a two-fold ambiguity in assigning the correct b-jet lepton. I will provide an overview of several existing methods to resolve the two-fold ambiguity, and introduce new attempts using machine learning.

Summary

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