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Selection of charged-current muon-neutrino and electron-neutrino interactions in the DUNE far detector

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The Deep Underground Neutrino Experiment (DUNE) is a next generation long-baseline neutrino experiment whose primary physics goals include measurement of the charge-parity violating phase delta(CP) and determination of the neutrino mass ordering. The DUNE experiment's far site will house four 10 kt liquid argon time projection chambers which will measure the event rates of intrinsic muon-neutrino and oscillated electron-neutrino charged-current interactions from Fermilab's long-baseline neutrino facility beam to achieve these goals. This talk describes developments and characterisation of reconstruction-based multi-variate analyses to select such events.

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