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Direct Measurement of V_{td} and V_{ts} through electron proton collisions

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We perform a study on the direct measurement of V_{td} and V_{ts} CKM matrix elements, at the electron proton colliders, through W boson and bottom quark associated production channel as well as W boson and jet associated production channel. The W and bottom(jet) final states can be produced by s-channel single top decay or t-channel top exchange. We find even at the current LHC based ep collider, the channels we are using, already result in very good limits, thus good direct measurement potentials to the V_{td} and V_{ts} CKM matrix elements.

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