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Branching fractions of B->D(*)taunu and B->taunu at BABAR and implications for new physics

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The decays B -> tau nu, B -> D tau nu, and B -> D* tau nu are sensitive to physics beyond the standard model, in particular to contributions from charged Higgs bosons. The multiple-neutrino final states make studies of these decays particularly challenging and require reconstruction of the full event, which can be performed only at an electron-positron collider. We use the full BABAR data set and much improved full-event-reconstruction techniques to make improved measurements of these branching fractions. We report consistency with the standard model and limits on new-physics models.

Primary authors: COLLABORATION, BABAR (SLAC); Dr ROTONDO, Marcello (Universita' di Padova)

Presenter: Dr ROTONDO, Marcello (Universita' di Padova)

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