Measurements of tau hadronic branching fractions and spectra, and search for second class current tau decays

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We present a set of preliminary and final results on tau branching fractions and invariant mass spectra, and a search for the second class current decay tau -> pi eta'(958) nu_tau. The results include new studies of a large number of 3 and 5-prong tau decay modes, either inclusive or classified according the hadronic resonance content (K0S, eta,

omega, etc.).

All results are based on the analysis of the BaBar data-set consisting

of 430 million tau lepton pairs, corresponding to an integrated luminosity of 468 fb⁻¹, collected with the BABAR detector at the PEP-II asymmetric energy e+ e- storage rings.

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