

Contribution ID: 732 Type: Parallel Session Talk

Measurements of Partial Branching Fractions for B -> X_u l anti-nu and Determination of |Vub|

Saturday, 24 July 2010 10:00 (13 minutes)

We present partial branching fractions for inclusive charmless semi-leptonic B decays anti-B -> X_u l anti-nu, and the determination of the CKM matrix element $|V_{ub}|$. The analysis is based on a sample of Upsilon(4S) decays into B anti-B pairs collected with the BABAR detector at the PEP-II e+ e- storage rings. We select events using either the invariant mass M_X of the hadronic system, the invariant mass squared, q^2 of the lepton and neutrino pair, the kinematic variable P_+ , the lepton energy E_1 , or one of their combinations. We determine partial branching fractions in limited regions of phase space. Corresponding values of $|V_{ub}|$ are extracted using several theoretical calculations.

Primary authors: RONEY, Michael (BABAR/Univ. of Victoria); TBD, TBD (BABAR)

Presenter: SIGAMANI, Michael (Dipartimento di Fisica G. Marconi-Universita di Roma I 'La Sapie)

Session Classification: 06 - CP violation, CKM and Rare Decays

Track Classification: 06 - CP violation, CKM and Rare Decays