Contribution ID: **67** Type: **not specified**

Charmless B -> V T decays in perturbative QCD approach

Wednesday 22 February 2012 17:00 (2 hours)

The B –> V T (V and T denote vector and tensor mesons respectively) decays, whose final-state particles can have transverse or longitudinal polarization, are investigated in perturbative QCD (pQCD) approach. Measurements have been made of B –> phi K_2ˆ, *and it is found that f_T / f_L is small, whereas f_T / f_L ˜ 1 for B –> omega K_2ˆ* where f_T(f_L) is the fraction of transverse (longitudinal) decays. It will be of great interest to measure f_L for these modes to test pQCD.

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Session Classification: Poster Session