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***Imaginary Penguin Amplitudes
in B Meson Decays***

I will discuss a source of strong-interaction phases in exclusive B meson decays. The current data of the $B \rightarrow K \pi$ direct CP asymmetry require a sizable strong phase in penguin amplitudes. Theoretically, its source has been a subject of controversy for several years; penguin annihilation amplitudes have a sizable imaginary part in the perturbative QCD approach, whereas they are almost real in the soft-collinear effective theory with the zero-bin subtraction. I will explain how to reconcile the opposite theoretical observations in two approaches.

Monday, Nov. 12

2:30 P.M.

304 Robeson