

Time-dependent CP violation in radiative B decays

Monday, 27 July 2009 14:30 (20 minutes)

We report measurements of time-dependent CP -violation parameters in radiative modes where a B^0 meson decays to $\phi K_S^0 \gamma$, $\omega K_S^0 \gamma$, $K_S^0 \rho^0 \gamma$ and $K_S^0 \pi^0 \gamma$ final states. These results are based on a large data sample collected at the $\Upsilon(4S)$ resonance with the Belle detector at the KEKB energy-asymmetric e^+e^- collider and are sensitive to right-handed currents from new physics. We also report updated measurements of branching fractions in $B \rightarrow \phi K^+ (K_S^0) \gamma$ decays and new measurements of $B \rightarrow \omega K^+ (K_S^0) \gamma$ decays.

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Session Classification: CP-violation I

Track Classification: CP-violation