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## Observation of Radiative $B^0 \rightarrow \phi K^0 \gamma$ Decays and Measurements of time-dependent CP violation

*Saturday, 24 July 2010 12:15 (13 minutes)*

We report the first observation of the radiative decay  $B^0 \rightarrow \phi K^0 \gamma$  and new measurements of time-dependent CP-violation using a large data sample collected at the Upsilon(4S) resonance with the Belle detector at the KEKB asymmetric-energy  $e^+e^-$  collider. These measurements are sensitive to right-handed currents from new physics. We also report an updated measurement of the branching fraction of  $B^+ \rightarrow \phi K^+ \gamma$  decays.

**Primary author:** TRABELSI, Karim (KEK)

**Presenter:** SAHOO, Himansu (University of Hawaii)

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

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