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Time-dependent CP violation in B decays at Belle

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Using 772 million B meson pair decays recorded by the Belle detector at the KEKB collider, we study the time-dependent CP violation in the penguin transitions $b \to sq\bar{q}$, specifically in $B^0 \to \eta' K^0$. The K^0 mesons are reconstructed by either K^0_S and K^0_L and the possible deviation of the CP-violating parameter $\sin 2\phi_1^{\rm eff}$ from the value found in the tree-dominated decay modes $b \to c\bar{c}s$ is discussed.

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