

## High Energy Physics - Experiment

# Search for $B^0 \rightarrow \overline{K} K^*$ , $B^0 \rightarrow K K^*$ and $B^0 \rightarrow K^+ \pi^- K^{\mp} \pi^{\pm}$ Decays

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We report a search for the decays  $B^0 \rightarrow \overline{K} K^*$  and  $B^0 \rightarrow K K^*$ . We also measure other charmless decay modes with  $K^+ \pi^- K^- \pi^+$  and  $K^+ \pi^- K^+ \pi^-$  final states. The results are obtained from a data sample containing  $657 \times 10^6$   $B \overline{B}$  pairs collected with the Belle detector at the KEKB asymmetric-energy  $e^+e^-$  collider. We set upper limits on the branching fractions for  $B^0 \rightarrow \overline{K} K^*$  and  $B^0 \rightarrow K K^*$  of  $0.81 \times 10^{-6}$  and  $0.20 \times 10^{-6}$ , respectively, at the 90% confidence level.

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