



Contribution ID: 589

Type: Parallel Talk

## Radiative and electroweak-penguin $B$ decays at Belle

*Saturday, 9 July 2022 09:00 (17 minutes)*

The radiative and electroweak-penguin  $B$  decays mediated via  $b \rightarrow s\gamma$  and  $b \rightarrow s\ell^+\ell^-$  transitions, respectively, are sensitive to new physics since new heavy particles can enter in the loop altering decay branching fractions and other kinetic observables. Search for the lepton-flavor violation and the test of lepton-flavor universality through these processes are also of topical interest. In this presentation, we report measurements of  $B \rightarrow K^*\tau\tau$ ,  $B \rightarrow K\tau\ell$ ,  $B \rightarrow K_S^0 K_S^0 \gamma$  and  $B \rightarrow p\Lambda\gamma$  using  $772 \times 10^6$   $B$ -meson pairs recorded by the Belle experiment at the KEKB asymmetric-energy  $e^+e^-$  collider. The talk may also cover a few topics on other rare  $B$  and  $B_s$  decays from Belle.

### In-person participation

Yes

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**Session Classification:** Quark and Lepton Flavour Physics

**Track Classification:** Quark and Lepton Flavour Physics