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Rare Decays with Missing Energy at the Belle II Detector (student talk)

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The Belle II detector is a competitive, perhaps unique, environment in which to study rare B decays with missing energy to a sensitivity that would exhibit indirect New Physics effects. From a $B\bar{B}$ meson pair that has been produced in the SuperKEKB B -factory, one B meson can be fully reconstructed through powerful B -tagging, which in turn provides strong constraints for the other B meson. This is an ideal environment in which rare decays with missing energy can be measured. The possible missing energy decays will be examined with a focus on the decay $B \rightarrow \tau\nu$, which - with the full Belle II data set (50 ab^{-1}) - can be probed at unprecedented precision.

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