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## Rare and BSM decays at Belle II, and prospects

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The Belle II detector, located at the SuperKEKB accelerator, is designed for direct and indirect searches of New Physics beyond the Standard Model via precision measurements of  $e^+e^-$  collisions. Belle II has already recorded half of the data collected by its predecessor, aiming at collecting  $50 \text{ ab}^{-1}$  of integrated luminosity at the end of operations,

and reached a world-record instantaneous luminosity of  $4.7 \cdot 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$  in June 2022. Belle II expects to explore flavor physics with  $B$  mesons with unprecedented precision, and has already produced multiple world-leading results in this area. In this contribution we present the latest results and future prospects in the study of rare and beyond the Standard Model decays at Belle II.

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