

## Search for dark sector candidates coupled with tau leptons at the Belle II experiment

Using about 200 fb<sup>-1</sup> of data from electron-positron annihilations, we present searches for dark leptophilic scalars produced in association with tau-pair decays at the Belle II experiment. The goal of this analysis is to discover dark matter or find upper limits of the dark coupling constant as a function of the dark scalar mass.

### What is your topic?

Physics beyond the Standard Model

**Primary authors:** LIBBY, James (Indian Institute of Technology Madras (IN)); BISWAS, Diptaparna (University of Louisville (US))

**Presenter:** BISWAS, Diptaparna (University of Louisville (US))

**Session Classification:** Session 2c: Test of fundamental symmetries with tau lepton

**Track Classification:** Tau2021 Abstracts