

## The tau mass measurement at Belle II

*Friday 1 October 2021 10:50 (2 hours)*

Using the Belle II data from the early Phase III data taking, we reconstructed the tau leptons using the 3-prong  $\tau$  decays. This decay mode is used for the tau-lepton mass measurement using the pseudomass technique developed by the ARGUS experiment. Though this measurement is expected to be limited by statistics and imperfect knowledge of the detector performance, we foresee that Belle II will provide the best tau mass measurement using the pseudomass technique once a larger data set with fully understood and operational detector components is available.

### What is your topic?

Precision SM tests

**Authors:** LIBBY, James (Indian Institute of Technology Madras (IN)); RAD, Navid Khandan (Deutsches Elektronen-Synchrotron DESY)

**Presenter:** RAD, Navid Khandan (Deutsches Elektronen-Synchrotron DESY)

**Session Classification:** Poster session: Breakout room 1

**Track Classification:** Tau2021 Abstracts