

## Advanced analysis techniques used at Belle II

Analysis techniques based on statistical learning algorithms such as artificial neural networks or decision trees are known to offer significant improvements in the analysis of large samples of data. Belle II developed and implements a variety of such algorithms in several aspects of physics analysis including online event selection, beam-background prediction, identification of collisions that produce bottom-mesons, inference of bottom-meson flavor, and others. This talk presents an overview of the methods used and of the performance achieved.

**Presenter:** RÖHRKEN, Markus (CERN)

**Session Classification:** Analysis tools

**Track Classification:** Analysis tools