Type: Poster

Belle2Lab - Interactive Tool for Public Analysis of Belle II Data

Tuesday 10 July 2018 16:40 (20 minutes)

Several data samples from a Belle II experiment will be available to the general public as a part of experiment outreach activities. Belle2Lab is designed as an interactive graphical user interface to reconstructed particles, offering users basic particle selection tools. The tool is based on a Blockly JavaScript graphical code generator and can be run in a HTML5 capable browser. It allows description of different particle decays by selecting and combining particles from the data file, easy histogramming tools and display of the results by using the JSROOT library. During the analysis, the user has a possibility to apply the cuts on selected variables. A pseudocode generated by the user interface is sent to the execution server which returns the histograms, that can also be interactively fitted. The Belle2Lab is accessible in two ways: hosted on a single public web server or as a part of the virtual appliance, which consists of a Linux operating system, a data sample, an analysis framework and a private web server. The former can be used for single access, while the latter is more suited for use in a classroom. In the presentation, I will describe a design and an implementation of the interface and demonstrate its use. I will also outline our plans for future development.

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Session Classification: Posters

Track Classification: Track 6 – Machine learning and physics analysis