FCC Week 2019



Contribution ID: 500 Type: Presentation

Challenges for EW b physics measurements

Tuesday 25 June 2019 11:10 (20 minutes)

Measurements of the partial widths to b-quarks normalised to the total hadronic width (Rb) and the forward-backward b asymmetry probe the fundamental charge and weak isospin structure of the Standard Model couplings for b-quarks, which are in turn sensitive to new physics. I will discuss the current status of the LEP+SLD measurements and methods, discussing the achievable precision at the FCC-ee. Particular emphasis will be given to the systematic uncertainties, which will limit the experimental precision, and discuss possible implications on the detectors.

Primary author: PALLA, Fabrizio (INFN Sezione di Pisa, Universita' e Scuola Normale Superiore, P)

Presenter: PALLA, Fabrizio (INFN Sezione di Pisa, Universita' e Scuola Normale Superiore, P)

Session Classification: FCC physics, experiments & detectors

Track Classification: FCC-ee detector & experiment