



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 (R_b) 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.

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Session Classification: FCC physics, experiments & detectors

Track Classification: FCC-ee detector & experiment