Contribution ID: 1190 Type: Poster

Outlook for Theoretical Precision of the Luminosity at Future Lepton Colliders

Thursday 18 July 2024 20:40 (20 minutes)

The LEP precision physics requirements on the theoretical precision tag for the respective luminosity were 0.054 % (0.061%) at M_Z , where the former (latter) LEP result has (does not have) the pairs correction. For the contemplated FCC-ee, ILC, and CEPC Higgs/EW factories, one needs improvement at M_Z to at least 0.01% for the theoretical precision tag. We discuss the paths one may take to even exceed this latter goal and present an update on the current expectations for both M_Z and proposed higher energy scenarios.

Alternate track

1. Top Quark and Electroweak Physics

I read the instructions above

Yes

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Session Classification: Poster Session 1

Track Classification: 11. Accelerator: Physics, Performance, and R&D for Future Facilities