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Overview of theoretical precision of future e+e- colliders

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For both the FCC-ee and the ILC, to exploit properly the respective precision physics program, the theoretical precision tag on the respective luminosity will need to be improved from the analogs of the 0.054 % (0.061%) results at LEP at M_Z , where the former (latter) LEP result has (does not have) the pairs correction. At the FCC-ee at M_Z one needs improvement to 0.01%, for example. We present an overview of the roads one may take to reach the required 0.01 % precision tag at the FCC-ee and of what the corresponding precision expectations would be for the FCC-ee₃₅₀, ILC₅₀₀, ILC₁₀₀₀, and CLIC₃₀₀₀ setups.

In-person participation

Yes

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