XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



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alpha_s: Recent developments and future prospects

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I will present the current status of the determination of the QCD coupling α_s from the 15 methods where highprecision theoretical calculations and experimental measurements are (or will be) available including, among others: (i) lattice QCD, (ii) τ hadronic decays, (iii) soft parton-to-hadron fragmentation functions, (iv) proton structure functions, (v) e+e- event shapes and jet rates, (vi) hadronic W and Z boson decays, and (vii) topquark cross sections in proton-(anti)proton collisions. The current status of the theoretical and experimental uncertainties associated to each extraction method, the improvements expected from LHC data in the coming years, and future perspectives achievable in e+e- collisions will be summarized.

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