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Charm and bottom masses from QCD sum rules: new results and proper treatment of uncertainties

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We briefly review recent charm and bottom mass determinations based on perturbative QCD. We give new results on MSbar charm mass using as input lattice moments of the pseudoscalar current correlator. We also give an update on the MSbar bottom mass based on e+e- data, which quantifies the uncertainties from energies where no measurements exist and uses latest theory input. Both analyses are based on a careful analysis of the theoretical uncertainties from the truncation of the perturbative series and avoid the accidental cancellation of scale variations contained in some of the previous sum rule analyses.

Co-authors: HOANG, Andre (U); MATEU, Vicent (MPI for Physics, Munich)

Presenter: Mr DEHNADI, Bahman (University of Vienna)

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