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Quark mass determination from lattice QCD

Thursday 11 January 2018 09:15 (20 minutes)

The ability of lattice QCD to calculate experimental observables, such as meson masses, from a small number of input parameters makes it a powerful tool for the accurate determination of those parameters. One method of determining quark masses relies on the tuning of the bare quark masses on the lattice and the calculation of the relevant mass renormalisation factors. This can be done nonperturbatively with momentum subtraction schemes such as RI-SMOM, which can be matched to \overline{MS} in the continuum to give high precision quark mass determinations.

What would be the preferred length of your talk?

10 minutes + questions

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