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Recent advances in lattice QCD for the LHC

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While perturbation theory offers an impressive machinery to describe the strong interaction at high energy, it is not reliable anymore to take into account long-distance degrees of freedom of the theory. Lattice QCD is a well-established approach to solve QCD from first principles of quantum field theory. Theorists have realised significant breakthrough in the recent past in topics which were considered as particularly challenging and. We are in pretty good position to understand the dynamics at work in systems under close investigation at the LHC. In this talk I will illustrate the statement by sketching a couple of recent advances in spectroscopy, hadron structure and QCD at finite temperature.

Declaration

I certify that I have checked that I am authorised to submit the abstract with the listed co-authors with their current affiliations

Change of Speaker

I understand that change of speaker is allowed provided that no participant gives more than one talk. Otherwise, we will ask the speaker to choose between one or the other abstract to be presented.

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