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SU(3) equation of state on the lattice: status and new methods

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In the last few years highly precise determinations of the equation of state of the SU(3) Yang-Mills theory have become available from different methods. Indeed, the purely gluonic sector of QCD provides a perfect framework for testing new computational techniques, while avoiding most of the technical challenges of the theory with dynamical fermions. In this talk I will present an overview of recent developments, with a particular focus on a novel method based on Jarzynski's equality, and I will discuss the status of the latest numerical results.

Presenter: Dr NADA, Alessandro (DESY Zeuthen)

Session Classification: Plenary Talks