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Simulating lattice QCD at high temperatures

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Numerical simulations of lattice Quantum ChromoDynamics offer a non perturbative approach from first principles to compute the properties of the theory of strong interactions. The design of efficient algorithms and the increasing computing power of latest and future generation HPC systems allow to push simulations to more interesting (and challenging) regimes. Within the context of the National Center for High Performance Computing, I will present some work-in-progress results from my Ph.D. project, which concerns the simulation of QCD in the very high temperature regime.

Presenter: RESCIGNO, Pietro (Istituto Nazionale di Fisica Nucleare)

Session Classification: Lightning talks - flash talks