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Fluctuations of conserved charges and freeze-out conditions in heavy ion collisions

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I will review the recent results on fluctuations of conserved charges obtained on the lattice by the Wuppertal-Budapest collaboration. I will then show a comparison between lattice QCD calculations and experimental data from the RHIC beam energy scan, in order to extract the chemical freeze-out parameters (temperature and baryo-chemical potential) of a heavy-ion collision from first principles. Future perspectives for the measurement of strangeness fluctuations will be discussed.

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