Contribution ID: **781**   Type: **Oral presentation**

The equation of state form Lattice QCD with finite μ_B **and** μ_S

Wednesday, 6 April 2022 11:10 (20 minutes)

In this talk we extend the novel expansion scheme introduced in [1] to explore the impact of a strange and electric charge chemical potential. We focus on the equation of state along the strangeness neutral line, which allows us to match conditions in heavy ion collision experiments. We are also able to extrapolate different thermodynamic quantities to values of the strangeness and electric charge densities beyond those corresponding to the strangeness neutrality conditions.

[1] S. Borsányi et al., Phys.Rev.Lett. 126 (2021) 23, 232001

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Session Classification: Parallel Session T06: Lattice QCD and heavy-ion collisions

Track Classification: Lattice QCD and heavy-ion collisions