



Contribution ID: 184

Type: **Poster**

Electric charge fluctuations from the lattice

Tuesday 14 June 2022 17:49 (1 minute)

Fluctuations of conserved charges in a grand canonical ensemble can be computed on the lattice and, thus, provide theoretical input for freeze-out phenomenology. Electric charge fluctuations and the corresponding higher order correlators are extremely difficult, suffering from the most severe lattice artefacts. We present new simulation data with a novel discretization where these effects are strongly suppressed and provide continuum extrapolated results in the temperature region of the chemical freeze-out.

Present via

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Session Classification: Poster

Track Classification: Bulk matter phenomena, QCD phase diagram, and Critical point