Contribution ID: **739** Type: **Oral presentation**

Electric charge fluctuations from the lattice

Wednesday, April 6, 2022 9:00 AM (20 minutes)

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 form 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.

Primary authors: PASZTOR, Attila (Eötvös University); PAROTTO, Paolo (University of Wuppertal); BORSANYI, Szabolcs; RATTI, Claudia; FODOR, Zoltan (BUW)

Presenter: BORSANYI, Szabolcs

Session Classification: Parallel Session T03: QCD matter at finite temperature and density

Track Classification: QCD matter at finite temperature and density