



19th International Conference on QCD in Extreme Conditions (XQCD 2023)

Contribution ID: 51

Type: **Talk**

QCD thermodynamics with dynamical chiral fermions

Friday 28 July 2023 14:25 (25 minutes)

We discuss the properties of Quantum Chromodynamics at finite temperature obtained by means of lattice simulations with the overlap fermion discretization. This fermion discretization preserves chiral symmetry even at finite lattice spacing. We present the details of the formulation and discuss the properties of the chiral thermal phase transition. We compare the results obtained with the chiral fermions with predictions by other fermion discretizations.

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Session Classification: Parallel session A