

# XXXII International (ONLINE) Workshop on High Energy Physics "Hot problems of Strong Interactions"

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## QCD thermodynamics at nonzero isospin asymmetry

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We study the thermodynamic properties of QCD at nonzero isospin chemical potential using improved staggered quarks at physical quark masses. In this talk, we will discuss the extraction of the equation of state and show results at zero and nonzero temperatures. As an application, we briefly discuss its relevance for the trajectory of the early Universe at nonzero lepton asymmetry.

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