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Chiral and deconfinement transitions in strong coupling lattice QCD

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We investigate the QCD phase diagram based on the strong coupling lattice QCD. In particular, we focus on the interplay between the chiral and deconfinement transitions in the strong coupling framework. We show that the critical temperature at zero chemical potential becomes lower and closer to Mont-Carlo data due to the Polyakov loop effects. We will show some results on finite chemical potential cases.

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talk

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