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Partial deconfinement in QCD at $N = \infty$ and $N = 3$

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We describe how the general mechanism of partial deconfinement applies to large- N QCD and the partially-deconfined phase inevitably appears between completely-confined and completely-deconfined phases. Furthermore, we propose how the partial deconfinement can be observed in the real-world QCD with $SU(3)$ gauge group. We propose how the Polyakov loop and chiral condensate should behave and test the proposal against lattice simulation data.

Topical area

QCD at Non-zero Temperature

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