Partial Deconfinement at Strong Coupling on the Lattice

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Partial deconfinement is proposed in the context of the deconfinement transition for the large N gauge theories, as the coexisting phenomenon of the confined and deconfined sectors in the space of color degrees of freedom. It is well-established analytically for weakly-coupled theories, while it remains unclear whether the above picture is valid at strong coupling. We provide some evidence for the above situation using lattice Monte Carlo simulations of two bosonic matrix models.

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