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Investigating quark confinement from the viewpoint of lattice gauge scalar models

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Lattice gauge scalar models allow analytical connection between confinement region and Higgs region for gauge invariant operators.

Combining the cluster expansion and the duality, we try to understand non-trivial contribution from scalar field in quark confinement mechanism.

In order to understand quark confinement further, moreover, we study double-winding Wilson loop averages in the analytical region on the phase diagram.

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