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5-dimensional SU(2) lattice gauge theory with Z_2 orbifolding and its phase structure

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In 5-dimensional SU(2) lattice gauge theory with Z_2 orbifolding, we find a new symmetry. It helps us to recognize the Polyakov loop as the order parameter, because the center symmetry is trivial and useless for the loop in the system. The vacuum structure and the application of the symmetry are also discussed.

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talk

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