Library
Indian Institute of Science Education and Research
Mohali

Please use this identifier to cite or link to this item: http://hdl.handle.net/123456789/4806

Title:	Z_2 symmetry in Z_2+Higgs theory. In:
Other Titles:	Vinod, (eds). The 38th International Symposium on Lattice Field Theory (LATTICE2021) - Oral presentation.
Authors:	Biswal, Minati (/jspui/browse?type=author&value=Biswal%2C+Minati)
Keywords:	Z2 symmetry +Higgs theory
Issue Date:	2022
Publisher:	Proceeding of Science
Citation:	Proceedings of Science, 396, 505.
Abstract:	Using Monte Carlo methods, we study Z2 symmetry in Z2+Higgs theory. In 3 + 1 space-time dimensions, our simulation results suggest that the Z2 symmetry is realized at large number of temporal lattice points (N_T) in the Higgs symmetric phase. In order to see the dependence of Z2 symmetry on the number of temporal lattice points we have also studied a simple temporal one dimensional model for a given spatial site. We show that the Z2 symmetry is observed at the level of free energy at large N_T limit. For this model, we also compute the density of states (DoS) for various N_T values, where we show that the realization of the Z2 symmetry happens at higher N_T. Therefore, the realization of Z2 symmetry may be due to dominance of the DoS.
Description:	Only IISER Mohali authors are available in the record.
URI:	https://doi.org/10.22323/1.396.0505 (https://doi.org/10.22323/1.396.0505) http://hdl.handle.net/123456789/4806 (http://hdl.handle.net/123456789/4806)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need To Add…Full Text_PDF..pdf (/jspui/bitstream/123456789/4806/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF..pdf)		15.36 kB	Adobe PDF	View/Open (/jspu

Show full item record (/jspui/handle/123456789/4806?mode=full)
(/jspui/handle/123456789/4806/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.