



# Library Indian Institute of Science Education and Research Mohali



**DSpace@IISERMohali (/jspui/)**

**/ Publications of IISER Mohali (/jspui/handle/123456789/4)**

**/ Research Articles (/jspui/handle/123456789/9)**

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/4848>

Title:	Probing non-perturbative supersymmetry breaking through lattice path integrals
Authors:	Dhindsa, Navdeep Singh (/jspui/browse?type=author&value=Dhindsa%2C+Navdeep+Singh) Joseph Anosh (/jspui/browse?type=author&value=Joseph+Anosh)
Keywords:	non-perturbative supersymmetry lattice path
Issue Date:	2022
Publisher:	Springer Nature
Citation:	European Physical Journal Plus, 137(10), 45262.
Abstract:	We investigate non-perturbative supersymmetry breaking in various models of quantum mechanics, including an interesting class of PT-invariant models, using lattice path integrals. These theories are discretized on a temporal Euclidean lattice with anti-periodic boundary conditions. Hybrid Monte Carlo algorithm is used to update the field configurations to their equilibrium values. We used the Ward identities, expectation value of the action, and the expectation value of the first derivative of the superpotential as tools for probing supersymmetry breaking.
Description:	Only IISER Mohali authors are available in the record.
URI:	<a href="https://doi.org/10.1140/epjp/s13360-022-03389-w">https://doi.org/10.1140/epjp/s13360-022-03389-w</a> ( <a href="https://doi.org/10.1140/epjp/s13360-022-03389-w">https://doi.org/10.1140/epjp/s13360-022-03389-w</a> ) <a href="http://hdl.handle.net/123456789/4848">http://hdl.handle.net/123456789/4848</a> ( <a href="http://hdl.handle.net/123456789/4848">http://hdl.handle.net/123456789/4848</a> )
Appears in	Research Articles (/jspui/handle/123456789/9)
Collections:	

Files in This Item:

File	Description	Size	Format	
Need To Add...Full Text_ PDF.pdf (/jspui/bitstream/123456789/4848/1/Need%20To%20Add%e2%80%a6Full%20Text_ PDF..pdf)		15.36 kB	Adobe PDF	<a href="#">View/Open (/jspu</a>

[Show full item record \(/jspui/handle/123456789/4848?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/4848/statistics\)](#)

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