



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

/ Thesis & Dissertation (/jspui/handle/123456789/1)

/ Master of Science (/jspui/handle/123456789/2)

/ MS-13 (/jspui/handle/123456789/914)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/1339>

Title:	Wigner and Husimi Distribution Functions for Quantum Systems
Authors:	Singh, Sandeep (/jspui/browse?type=author&value=Singh%2C+Sandeep)
Keywords:	Chemistry Quantum Systems Wigner Distribution Function Fourier Transform Harmonic Oscillator
Issue Date:	5-Nov-2019
Publisher:	IISERM
Abstract:	The present work deals with the study of Wigner and Husimi function for quantum systems. We have applied Wigner function to the Harmonic oscillator and represented it in the phase space distribution. We have proposed two different methods to compute the Wigner function using fourier transformation. We are applying these methods to model quantum systems and later calculating the electron densities for atoms and molecules.
URI:	IISERM (IISERM) http://hdl.handle.net/123456789/1339 (http://hdl.handle.net/123456789/1339)
Appears in	MS-13 (/jspui/handle/123456789/914)
Collections:	

Files in This Item:

File	Description	Size	Format	
MS13079.pdf (/jspui/bitstream/123456789/1339/3/MS13079.pdf)	Full Text.pdf	976.87 kB	Adobe PDF	View/Open (/jspui/bitstream/123456789/1339/3/MS13079.pdf)

[Show full item record \(/jspui/handle/123456789/1339?mode=full\)](#)

[📊 \(/jspui/handle/123456789/1339/statistics\)](#)

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