



## PAPER

## Scattering of a wave packet by the Pöschl-Teller potential well

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E-mail: [tfjiang@yzm.nctu.edu.tw](mailto:tfjiang@yzm.nctu.edu.tw)**Keywords:** momentum space, numerical simulation, time-dependent Schrödinger equation, scattering theory**Abstract**

We investigate the scattering of a wave packet by the Pöschl-Teller potential in momentum representation. The scattering dynamics of the wave packet for a long-time evolution is feasible in this representation. With the wave function in momentum space, we can construct the time-dependent phase space Wigner function. The corresponding density function in coordinate space is then calculated through the Wigner function. The reflectionless wave packet for integer  $\nu$  and partially reflected for non-integer  $\nu$  are demonstrated by analyzing the Wigner function.

**1. Introduction**

A wave packet scattered by a potential will contain a transmitted part and a reflected part generally. But the Pöschl-Teller potential  $V(x)$ , under some specific condition, shows unusual reflectionless property. The time-dependent Schrödinger equation (TDSE) for the problem is

$$i\hbar \frac{\partial \Psi}{\partial t} = -\frac{\hbar^2}{2m} \frac{d^2 \Psi}{dx^2} + V(x)\Psi, \quad (1)$$

$$V(x) = -\frac{\hbar^2}{2ma^2} \frac{\nu(\nu+1)}{\cosh^2(x/a)}. \quad (2)$$

As Flügge [1] showed, for solutions in the following asymptotic form

$$\begin{aligned} \Psi(x) &= e^{ikx} + Re^{-ikx}, \text{ for } x \ll 0, \\ \Psi(x) &= Te^{ikx}, \text{ for } x \gg 0, \end{aligned} \quad (3)$$

the reflection and transmission coefficient will be

$$|R|^2 = \frac{1}{1+\eta^2}, \quad |T|^2 = \frac{\eta^2}{1+\eta^2}, \quad (4)$$

$$\eta = \frac{\sinh(\pi k a)}{\sin(\pi \nu)}. \quad (5)$$

When  $\nu = \text{integer}$ ,  $\eta \rightarrow \infty$ ,  $|R|^2 \rightarrow 0$  and  $|T|^2 \rightarrow 1$ , all the incident plane waves at arbitrary energy  $\hbar^2 k^2/2m$  will be reflectionless. Kiriatshcheva and Kuzmin [2] compared numerically the scattering of a Gaussian wave packet by the Pöschl-Teller potential of  $\nu = 1$  and by the square-well potential. Numerically they found the wave packet passes through the well faster than a free-space Gaussian wave packet, and the width becomes narrower after scattering. Lekner [3, 4] constructed analytically the reflectionless incident wave packets from eigenfunctions of  $\nu = 0, 1, 2$ . He derived the formulas for group velocity, and width together with numerical simulations and confirmed the speed up and narrower width compared to the free-space Gaussian wave packet showed in [2]. He showed that the number of elementary functions in eigenstates increases quickly from  $\nu = 1$  to  $\nu = 2$  and commented that as integer- $\nu$  increases, the eigenstates become more and more complicated. The eigenstates for non-integer  $\nu$  in terms of elementary functions are hard. Lekner gave examples of electromagnetic wave reflection by dielectric functions [5]. The special property of reflection at  $\nu = \text{integer}$  was attributed to the critical binding and symmetry of  $V(x) = V(-x)$  [3]. Tong [6] studied the analytic properties of scattering states of the Pöschl-Teller potential in complex energy plane. At an integer value of  $\nu$ , the speeding of a Gaussian wave packet

# 2electric Potential Packet

**Michael Rajnik**



## **2electric Potential Packet:**

Applied Quantum Mechanics Anthony Frederic John Levi, 2006 This updated and expanded edition makes quantum mechanics accessible to electrical engineers mechanical engineers materials scientists and applied physicists by using real world applications and engineering examples Numerous illustrations exercises worked examples and problems are included Matlab source codes to support the text are available from [www.cambridge.org/9780521860963](http://www.cambridge.org/9780521860963) Applied Quantum Mechanics Walter Ashley Harrison, 2000 Quantum mechanics is widely recognized as the basic law which governs all of nature including all materials and devices It has always been essential to the understanding of material properties and as devices become smaller it is also essential for studying their behavior Nevertheless only a small fraction of graduate engineers and materials scientists take a course giving a systematic presentation of the subject The courses for physics students tend to focus on the fundamentals and formal background rather than on application and do not fill the need This invaluable text has been designed to fill the very apparent gap The book covers those parts of quantum theory which may be necessary for a modern engineer It focuses on the approximations and concepts which allow estimates of the entire range of properties of nuclei atoms molecules and solids as well as the behavior of lasers and other quantum optic devices It may well prove useful also to graduate students in physics whose courses on quantum theory tend not to include any of these applications The material has been the basis of a course taught to graduate engineering students for the past four years at Stanford University Topics Discussed Foundations Simple Systems Hamiltonian Mechanics Atoms and Nuclei Molecules Crystals Transitions Tunneling Transition Rates Statistical Mechanics Transport Noise Energy Bands Electron Dynamics in Solids Vibrations in Solids Creation and Annihilation Operators Phonons Photons and Lasers Coherent States Coulomb Effects Cooperative Phenomena Magnetism Shake off Excitations Exercise Problems **Quantum Mechanics II** S. Rajasekar, R. Velusamy, 2022-11-24 Quantum Mechanics II Advanced Topics offers a comprehensive exploration of the state of the art in various advanced topics of current research interest A follow up to the authors introductory book Quantum Mechanics I The Fundamentals this book expounds basic principles theoretical treatment case studies worked out examples and applications of advanced topics including quantum technologies A thoroughly revised and updated this unique volume presents an in depth and up to date progress on the growing topics including latest achievements on quantum technology In the second edition six new chapters are included and the other ten chapters are extensively revised Features Covers classical and quantum field theories path integral formalism and supersymmetric quantum mechanics Highlights coherent and squeezed states Berry s phase Aharonov Bohm effect and Wigner function Explores salient features of quantum entanglement and quantum cryptography Presents basic concepts of quantum computers and the features of no cloning theorem and quantum cloning machines Describes the theory and techniques of quantum tomography quantum simulation and quantum error correction Introduces other novel topics including quantum versions of theory of gravity cosmology Zeno effect

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## **Table of Contents 2electric Potential Packet**

1. Understanding the eBook 2electric Potential Packet
  - The Rise of Digital Reading 2electric Potential Packet
  - Advantages of eBooks Over Traditional Books
2. Identifying 2electric Potential Packet
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 2electric Potential Packet
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2electric Potential Packet
  - Personalized Recommendations
  - 2electric Potential Packet User Reviews and Ratings
  - 2electric Potential Packet and Bestseller Lists

5. Accessing 2electric Potential Packet Free and Paid eBooks
  - 2electric Potential Packet Public Domain eBooks
  - 2electric Potential Packet eBook Subscription Services
  - 2electric Potential Packet Budget-Friendly Options
6. Navigating 2electric Potential Packet eBook Formats
  - ePub, PDF, MOBI, and More
  - 2electric Potential Packet Compatibility with Devices
  - 2electric Potential Packet Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2electric Potential Packet
  - Highlighting and Note-Taking 2electric Potential Packet
  - Interactive Elements 2electric Potential Packet
8. Staying Engaged with 2electric Potential Packet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2electric Potential Packet
9. Balancing eBooks and Physical Books 2electric Potential Packet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2electric Potential Packet
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 2electric Potential Packet
  - Setting Reading Goals 2electric Potential Packet
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2electric Potential Packet
  - Fact-Checking eBook Content of 2electric Potential Packet
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning



- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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