

# Asymptotic Behavior of the Wave Packet Propagation through a Barrier : the Green's Function Approach Revisited

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**Abstract.** To model the decay of a quasibound state we use the modified two-potential approach introduced by Gurvitz and Kalbermann [1,2]. This method has proved itself useful in the past for calculating the decay width and the energy shift of an isolated quasistationary state [3]. We follow the same approach in order to propagate the wave-packet in time with the ultimate goal of extracting the momentum-distribution of emitted particles. The advantage of the method is that it provides the time-dependent wave function in a simple semi-analytic form. We intend to apply this method to the modeling of metastable states for which no direct integration of the time-dependent Schrödinger equation is available today.

The Two Potential Approximation (TPA) introduced in Refs. [1,2] turned out to be an extremely successful tool for the description of a metastable state. Simple expressions based on the TPA made it possible to obtain a very precise estimate of the life-time of a very narrow resonance without the need of introducing an explicit time dependence. In this work, we use the TPA in order to derive the equations describing the time evolution of the wave function of a particle tunneling through a spherically-symmetric barrier.

Let us consider a particle moving in a central potential  $V(r)$  with a barrier. Asymptotically, i.e., at large values of  $r$ , we assume that  $V(r) \rightarrow 0$ . In the TPA,  $V(r)$  can be decomposed as

$$V(r) = U(r) + W(r), \quad (1)$$

where

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**Alan D. Wilson**



## **Low Energy Xray Diagnostics 1981 Monterey Aip Conference Proceedings Volume 75:**

**Fast Electrical and Optical Measurements** D.J. Thompson, Lawrence H. Luessen, 1986-03-31 An Advanced Study Institute on Fast Electrical and Optical Diagnostic Principles and Techniques was held at Il Ciocco Castelveccchio Pascoli Italy 10-24 July 1983 This publication is the Proceedings from that Institute The Institute was attended by ninety seven participants representing the United States West Germany the United Kingdom Switzerland Norway the Netherlands Italy and France The objective of the Institute was to provide a broad but comprehensive presentation of the various measurement and analysis techniques that can be employed to investigate fast physical events nominally in the sub microsecond regime This requires both an understanding of the basic principles underlying the diagnostic employed and its limitations and a knowledge of the practical techniques available to obtain reliable and repeatable data This Institute was thus structured to begin tutorially followed by more practical techniques demonstrations and discussions The Institute was divided into the following major sections 1 Overview of Applications and Needs 2 Voltage and Current Measurements 3 Data Acquisition 4 Grounding and Shielding 5 Fast Photography 6 Refractive Index Measurements 7 X ray Diagnostics 8 Spectroscopy and 9 Active Optical Techniques This Proceeding has been divided into two separate volumes Volume 1 Current and Voltage Measurements includes Sections 1 through 4 above Volume 2 Optical Measurements includes Sections 5 through 9

**X-Ray Microscopy** G. Schmahl, D. Rudolph, 2013-04-17 X ray microscopy fills a gap between optical and electron microscopy Using soft x rays a resolution higher than with visible light can be obtained In comparison to electron microscopy thick wet unstained specimens can be examined This is especially advantageous for biological applications The intense synchrotron radiation of electron storage rings and the development of optical elements for soft x rays render x ray microscopy feasible for basic research Wider applications will be possible in the future with the development of laboratory x ray sources and microscopes In 1979 a conference on x ray microscopy was organized by the New York Academy of Sciences and in 1981 a symposium on high resolution soft x ray optics was held at Brookhaven The present volume contains the contributions to the symposium X Ray Microscopy organized by the Akademie der Wissenschaften in Göttingen in September 1983 In their capacity as conference chairmen the editors would like to thank the Akademie der Wissenschaften especially Prof H G Wagner Secretary of the Academy and Mr J Pfahler for organizing the symposium We are indebted to the Stiftung Volkswagenwerk for financial support The symposium was held at the Max Planck Institut für Stromungsforschung We are grateful for their hospitality and assistance during the symposium Thanks are due to all authors and to the Springer Verlag for their combined efforts We thank Dipl Phys P Guttmann Dr B Niemann and Mrs A Marienhagen for their assistance during the final preparation of the manuscripts

**Atomic Inner-Shell Physics** Bernd Crasemann, 2013-03-09 The physics of atomic inner shells has undergone significant advances in recent years Fast computers and new experimental tools notably synchrotron radiation sources and heavy ion accelerators have greatly enhanced the

scope of problems that are accessible The level of research activity is growing substantially added incentives are provided by the importance of inner shell processes in such diverse areas as plasma studies astrophysics laser technology biology medicine and materials science The main reason for all this exciting activity in atomic inner shell physics to be sure lies in the significance of the fundamental problems that are coming within grasp The large energies of many inner shell processes cause relativistic and quantum electrodynamic effects to become strong Unique opportunities exist for delicate tests of such phenomena as the screening of the electron self energy and the limits of validity of the present form of the frequency dependent Breit interaction to name but two The many body problem which pervades virtually all of physics presents somewhat less intractable aspects in the atomic inner shell regime correlations are relatively weak so that they can be treated perturbatively and the basic potential is simple and known The dynamics of inner shell processes are characterized by exceedingly short lifetimes and high transition rates that strain perturbation theory to its limits and obliterate the traditional separation of excitation and deexcitation These factors are only now being explored as are interference phenomena between the various channels

Synchrotron Radiation Sources and Applications G.N Greaves,I.H Munro,1989-01-01 Synchrotron radiation facilities embrace an unusually wide range of scientific and technical skills including high brilliance electron accelerator technology ultra high vacuum precision engineering and beamline optical engineering With individual contributions from specialists in each area Synchrotron Radiation Sources and Applications comprehensively covers various topics from the basic theory of synchrotron radiation to its uses as an experimental tool in atomic molecular and solid state physics

**Astronomy and Astrophysics Abstracts** S. Böhme,W. Fricke,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-12-14 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documenta tion of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumu lating abstracts for about six months offers the advantage of greater convenience for the user Volume 31 contains literature published in 1982 and received before July 15 1982 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English

**Proceedings of the 15th International Congress on High Speed Photography and Photonics, August 21-27, 1982, San Diego, California, USA ,1983** *Proceedings in Print ,1982* **X-Ray Microscopy III** Alan G. Michette,Graeme R.

Morrison, Christopher J. Buckley, 2013-06-05 The growth of interest and research activity in X ray microscopy is reflected in the increasing size and scope of a related series of international conferences the latest of which XRM90 was held at King's College London 3-7 September 1990 with over 130 delegates Previous conferences in Gottingen and Brookhaven resulted in books in the Springer Series in Optical Sciences and this volume the proceedings of XRM90 maintains this tradition Because of the large number of papers their lengths were strictly limited and while most papers can be directly identified with conference presentations in a few cases those on similar topics by the same authors have been combined into a longer paper to allow better use of the space The book is divided into six parts with Parts I-VI covering the major areas of interest at the conference In Part I are two overviews Ron Burge presented the opening paper of the conference while the closing summary contribution by Janos Kirz is included here as a comprehensive introduction to the remainder of the book Part II covers developments in X ray sources and optics The high average brightnesses of synchrotron radiation sources have made many applications possible while the more convenient laboratory based plasma sources offer much promise for the future Several contributions report significant advances in X ray optics which must clearly continue fully to exploit the latest sources

*Directory of Published Proceedings*, 1983      *High Intensity Laser Processes* National Research Council Canada, Société inter-port de Québec, 1986      X-ray Calibration Paul D. Rockett, 1986      *X-ray Lithography and Applications of Soft X-rays to Technology* Alan D. Wilson, 1983      **Trudy i materialy nauchnykh kongressov i soveshchaniy, opublikovannye za rubezhom v ... gg**, 1979      **Associations' Publications in Print**, 1981 1981 in 2 v v 1 Subject index v 2 Title index  
 Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations

**Electron-beam, X-ray, and Ion-beam Techniques for Submicrometer Lithographies III** Alfred Wagner, 1984  
Dense Z-pinches Nino R. Pereira, Jack Davis, Norman Rostoker, 1989      *Труды И Материалы Научных Конгрессов И Сессий*, 1982      **Plasma Physics Reports**, 2006      *Proceedings of the Ninth International Vacuum Congress and Fifth International Conference on Solid Surfaces: Extended abstracts* J. L. de Segovia, 1983      *Subject Guide to Books in Print*, 1983

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