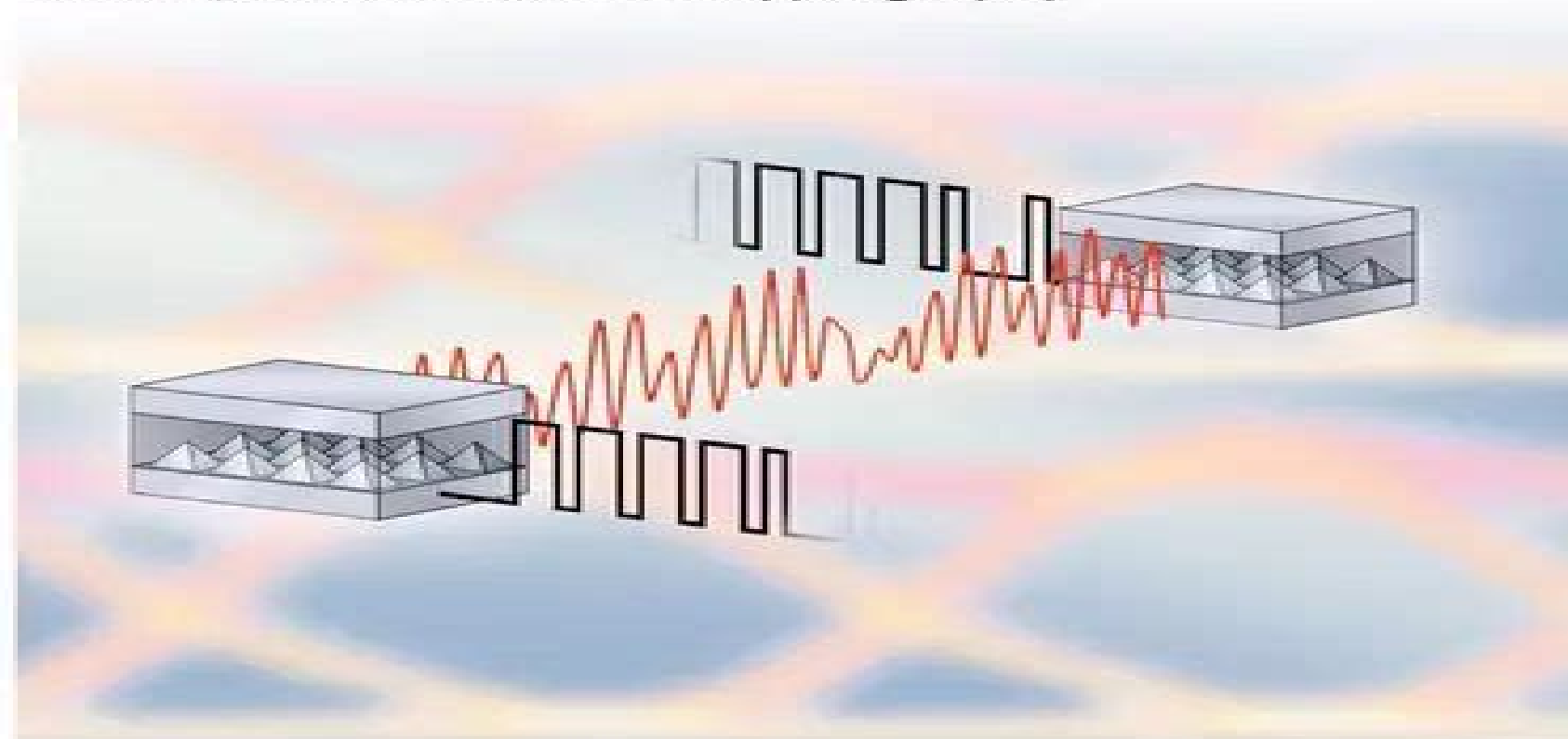


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# Nonlinear Laser Dynamics

From Quantum Dots to Cryptography



# Nonlinear Laser Dynamics From Quantum Dots To Cryptography

**Eckehard Schöll, Sabine H. L.  
Klapp, Philipp Hövel**



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**Dynamics of Quantum Dot Lasers** Christian Otto, 2014-01-21 This thesis deals with the dynamics of state of the art nanophotonic semiconductor structures providing essential information on fundamental aspects of nonlinear dynamical systems on the one hand and technological applications in modern telecommunication on the other Three different complex laser structures are considered in detail i a quantum dot based semiconductor laser under optical injection from a master laser ii a quantum dot laser with optical feedback from an external resonator and iii a passively mode locked quantum well semiconductor laser with saturable absorber under optical feedback from an external resonator Using a broad spectrum of methods both numerical and analytical this work achieves new fundamental insights into the interplay of microscopically based nonlinear laser dynamics and optical perturbations by delayed feedback and injection

*Nonlinear and Nonequilibrium Dynamics of Quantum-Dot Optoelectronic Devices* Benjamin Lingnau, 2015-12-14 This thesis sheds light on the unique dynamics of optoelectronic devices based on semiconductor quantum dots The complex scattering processes involved in filling the optically active quantum dot states and the presence of charge carrier nonequilibrium conditions are identified as sources for the distinct dynamical behavior of quantum dot based devices Comprehensive theoretical models which allow for an accurate

description of such devices are presented and applied to recent experimental observations The low sensitivity of quantum dot lasers to optical perturbations is directly attributed to their unique charge carrier dynamics and amplitude phase coupling which is found not to be accurately described by conventional approaches The potential of quantum dot semiconductor optical amplifiers for novel applications such as simultaneous multi state amplification ultra wide wavelength conversion and coherent pulse shaping is investigated The scattering mechanisms and the unique electronic structure of semiconductor quantum dots are found to make such devices prime candidates for the implementation of next generation optoelectronic applications which could significantly simplify optical telecommunication networks and open up novel high speed data transmission schemes

**Passively Mode-Locked Semiconductor Lasers** Lina Jaurigue, 2017-06-22 This thesis investigates the dynamics of passively mode locked semiconductor lasers with a focus on the influence of optical feedback on the noise characteristics The results presented here are important for improving the performance of passively mode locked semiconductor lasers and at the same time are relevant for understanding delay systems in general The semi analytic results developed are applicable to a broad range of oscillatory systems with time delayed feedback making the thesis of relevance to various scientific communities Passively mode locked lasers can produce pulse trains and have applications in the contexts of optical clocking microscopy and optical data communication among others Using a system of delay differential equations to model these devices a combination of numerical and semi analytic methods is developed and used to characterize this system

Dynamic Scenarios in Two-State Quantum Dot Lasers André Röhm, 2015-03-25 Andr R hm investigates the dynamic properties of two state lasing quantum dot lasers with a focus on ground state quenching With a novel semi analytical approach different quenching mechanisms are discussed in an unified framework and verified with numerical simulations The known results and experimental findings are reproduced and parameter dependencies are systematically studied Additionally the turn on dynamics and modulation response curves of two state lasing devices are presented

**Control of Self-Organizing Nonlinear Systems** Eckehard Schöll, Sabine H. L. Klapp, Philipp Hövel, 2016-01-22 The book summarizes the state of the art of research on control of self organizing nonlinear systems with contributions from leading international experts in the field The first focus concerns recent methodological developments including control of networks and of noisy and time delayed systems As a second focus the book features emerging concepts of application including control of quantum systems soft condensed matter and biological systems Special topics reflecting the active research in the field are the analysis and control of chimera states in classical networks and in quantum systems the mathematical treatment of multiscale systems the control of colloidal and quantum transport the control of epidemics and of neural network dynamics

**Multiscale Analysis and Nonlinear Dynamics** Misha Meyer Pesenson, 2013-09-13 Since modeling multiscale phenomena in systems biology and neuroscience is a highly interdisciplinary task the editor of the book invited experts in bio engineering chemistry cardiology neuroscience computer science and applied mathematics to provide

their perspectives Each chapter is a window into the current state of the art in the areas of research discussed and the book is intended for advanced researchers interested in recent developments in these fields While multiscale analysis is the major integrating theme of the book its subtitle does not call for bridging the scales from genes to behavior but rather stresses the unifying perspective offered by the concepts referred to in the title It is believed that the interdisciplinary approach adopted here will be beneficial for all the above mentioned fields *Handbook of Optoelectronic Device Modeling and Simulation*

Joachim Piprek, 2017-10-10 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field Spatio-Temporal Modeling and Device Optimization of Passively Mode-Locked Semiconductor Lasers

Stefan Meinecke, 2022-03-26 This thesis investigates passively mode locked semiconductor lasers by numerical methods The understanding and optimization of such devices is crucial to the advancement of technologies such as optical data communication and dual comb spectroscopy The focus of the thesis is therefore on the development of efficient numerical models which are able both to perform larger parameter studies and to provide quantitative predictions Along with that visualization and evaluation techniques for the rich spatio temporal laser dynamics are developed these facilitate the physical interpretation of the observed features The investigations in this thesis revolve around two specific semiconductor devices namely a monolithically integrated three section tapered quantum dot laser and a V shaped external cavity laser In both cases the simulations closely tie in with experimental results which have been obtained in collaboration with the TU Darmstadt and the ETH Zurich Based on the successful numerical reproduction of the experimental findings the emission dynamics of both lasers can be understood in terms of the cavity geometry and the active medium dynamics The latter in particular highlights the value of the developed simulation tools since the fast charge carrier dynamics are generally not experimentally accessible during mode locking operation Lastly the numerical models are used to perform laser design explorations and thus to derive recommendations for further optimizations

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