

**Publ. von J. Wiersig (1996-August 2008)**

**2008**

1. K. Sebald, H. Lohmeyer, J. Kalden, T. Meeser, J. Gutowski, C. Kruse, A. Gust, D. Hommel, J. Wiersig, N. Bae and F. Jahnke  
‣ Properties and Prospects of ZnSe-Based Quantum Dot Microcavity VCSEL Structures  
J. Korean Phys. Soc. 53, 83-87 (2008)
2. C. Gies, J. Wiersig, and F. Jahnke  
‣ Output Characteristics of Pulsed and Continuous-Wave-Excited Quantum-Dot Microcavity Lasers  
Phys. Rev. Lett. 101, 067401 (2008)
3. J. Unterhinninghofen, J. Wiersig, and M. Hentschel  
‣ Goos-Hänchen shift and localization of optical modes in deformed microcavities  
Phys. Rev. E 78, 016201 (2008)
4. J. Wiersig  
‣ Reciprocal transmissions and asymmetric modal distributions in waveguide-coupled spiral-shaped microdisk resonators: Comment  
Opt. Express 16, 5874-5875 (2008)
5. J. Wiersig and J. Main.  
‣ Fractal Weyl law for chaotic microcavities: Fresnel's laws imply multifractal scattering  
Phys. Rev. E 77, 036205 (2008)
6. K. Sebald, H. Lohmeyer, J. Gutowski, C. Kruse, T. Yamaguchi, A. Gust, D. Hommel, J. Wiersig, N. Baer, and J. Jahnke  
‣ Wide-bandgap quantum dot based microcavity VCSEL structures  
Advances in Solid State Physics 47, 29-41 (2008)
7. S. M. Ulrich, S. Ates, P. Michler, C. Gies, J. Wiersig, F. Jahnke, S. Reitzenstein, C. Hofmann, A. Löffler, and A. Forchel  
‣ Emission characteristics, photon statistics and coherence properties of high-beta semiconductor microcavity lasers  
Advances in Solid State Physics 47, 3-15 (2008)
8. J. Wiersig and M. Hentschel.  
‣ Combining directional light output and ultralow loss in deformed microdisks  
Phys. Rev. Lett. 100, 033901 (2008)
9. C. Kruse, H. Lohmeyer, K. Sebald, J. Gutowski, D. Hommel, J. Wiersig, and F. Jahnke  
‣ Green laser emission from monolithic II-VI-based pillar microcavities near room temperature  
Appl. Phys. Lett. 92, 031101 (2008)

**2007**

1. T. Berstermann, T. Auer, H. Kurtze, M. Schwab, D.R. Yakovlev, M. Bayer, J. Wiersig, C. Gies, F. Jahnke, D. Reuter, and A.D. Wieck  
‣ Systematic study of carrier correlations in the electron-hole recombination dynamics of quantum dots  
Phys. Rev. B 76, 165318 (2007)
2. K. Sebald, H. Lohmeyer, J. Gutowski, T. Yamaguchi, C. Kruse, D. Hommel, J. Wiersig, and F. Jahnke  
‣ On the way to InGaN quantum dots embedded into monolithic cavities  
phys. stat. sol. (b) 244, 1806-1809 (2007)
3. J. Nagler, M. Krieger, M. Linke, J. Schönke, and J. Wiersig  
‣ Leaking billiards



› Opto-mechanical probes of resonances in amplifying microresonators

Phys. Rev. A 70, 012703 (2004)

3. K.-H. Ahn, Y.-H. Kim, J. Wiersig, K. J. Chang

› Spectral properties of incommensurate double-walled carbon nanotubes.

Physica E 22 666 (2004)

## 2003

1. L. Benmohammadi, A. Erodabasi, K. Koch, F. Laeri, N. Owschimikow, U. Vietze, G. Ihlein, Ö. Weiß, I. Braun, I. Ganschow, G. Schulz-Eckloff, D. Wöhrle, J. Wiersig, and J.U. Nöckel

› Microscopic Lasers Based on the Molecular Sieve AIPO4-5

in Host-Guest Systems Based on Nanoporous Crystals (2003)

2. T. Gorin and J. Wiersig

› Low rank perturbations and the spectral statistics of pseudointegrable billiards.

Phys. Rev. E 68, 065205(R) (2003)

3. J. Wiersig and G.G. Carlo

› Evanescent wave approach to diffractive phenomena in convex billiards with corners.

Phys. Rev. E 67, 046221 (2003)

4. J. Wiersig

› Hexagonal dielectric resonators and microcrystal lasers.

Phys. Rev. A 67, 023807 (2003)

5. K.-H. Ahn, Y.-H. Kim, J. Wiersig, K. J. Chang

› Spectral Correlation in Incommensurate Multi-Walled Carbon Nanotubes.

Phys. Rev. Lett. 90, 026601 (2003)

6. J. Wiersig

› Boundary element method for resonances in dielectric microcavities.

J. Opt. A: Pure Appl. Opt. 5: 53-60 (2003)

## 2002

1. J. Wiersig

› Spectral properties of quantized barrier billiards.

Phys. Rev. E 65, 046217 (2002)

2. J. Wiersig, K.-H. Ahn

› Mode-locking in a Periodic Array of Scatterers.

Physica E 12(1-4), 256-259 (2002)

3. J. Wiersig

› Pseudointegrable Andreev billiard.

Phys. Rev. E 65, 036221 (2002)

## 2001

1. H. Osinga, J. Wiersig, P. Glendinning, U. Feudel

› Multistability and nonsmooth bifurcations in the quasiperiodically forced circle map.

Int. J. of Bifurcation and Chaos 11(12), 3085-3105 (2001)

2. J. Wiersig, K.-H. Ahn

› Devil's Staircase in Magnetoresistance of a Periodic Array of Scatterers.

Phys. Rev. Lett. 87, 026803 (2001)

3. J. Wiersig

› Resonance zones in action space.

Z. Naturforsch. 57a, 537-556 (2001)

4. J. Wiersig

› Quantum-classical correspondence in polygonal billiards.

Phys. Rev. E 64, 026212 (2001)

## 2000

1. J. Wiersig

Ellipsoidal billiards with isotropic harmonic potentials.

Int. J. of Bifurcation and Chaos 10(9): 2075-2098 (2000)

2. J. Wiersig

> Singular continuous spectra in a pseudointegrable billiard.

Phys. Rev. E 62, R21-24 (2000)

## 1999

1. P. Glendinning and J. Wiersig

> Fine structure of mode-locked regions of the quasi-periodically forced circle map.

Phys. Lett. A, 257, 65-69 (1999)

2. H. Waalkens, J. Wiersig, and H. R. Dullin.

> Triaxial ellipsoidal quantum billiards.

Ann. Phys. 276(1), 64-110 (1999)

## 1997

1. H. Waalkens, J. Wiersig, and H. R. Dullin.

> The elliptic quantum billiard.

Ann. Phys. 260(1), 50-90 (1997)

## 1996

1. P. H. Richter, H. R. Dullin, H. Waalkens, and J. Wiersig

> Spherical pendulum, actions and spin.

J. Phys. Chem. 100, 19124-19135 (1996)

2. J. Wiersig and P.H. Richter.

> Energy surfaces of ellipsoidal billiards.

Z. Naturforsch. 51a, 219-241 (1996)

