Fractals in Graz 2001

Analysis – Dynamics – Geometry – Stochastics

Peter Grabner
Wolfgang Woess
Editors

Fractals In Graz 2001 Analysis Dynamics Geometry Stochastics Trends In Mathematics

Uta Freiberg,Ben Hambly,Michael Hinz,Steffen Winter

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Fractals in Graz 2001 Peter J. Grabner,Wolfgang Woess,2003 This book contains the proceedings of the conference Fractals in Graz 2001 Analysis Dynamics Geometry Stochastics that was held in the second week of June 2001 at Graz University of Technology in the capital of Styria southeastern province of Austria The scientific committee of the meeting consisted of M Barlow Vancouver R Strichartz Ithaca P Grabner and W Woess both Graz the latter two being the local organizers and editors of this volume We made an effort to unite in the conference as well as in the present pro ceedings a multitude of different directions of active current work and to bring together researchers from various countries as well as research fields that all are linked in some way with the modern theory of fractal structures Although or because in Graz there is only a very small group working on fractal structures consisting of non insiders we hope to have been successful with this program of wide horizons All papers were written upon explicit invitation by the editors and we are happy to be able to present this representative panorama of recent work on poten tial theory random walks spectral theory fractal groups dynamic systems fractal geometry and more The papers presented here underwent a refereeing process *Fractals in Graz 2001* Peter Grabner,Wolfgang Woess,2012-10-23 This book contains the proceedings of the conference Fractals in Graz 2001 Analysis Dynamics Geometry Stochastics that was held in the second week of June 2001 at Graz University of Technology in the capital of Styria southeastern province of Austria The scientific committee of the meeting consisted of M Barlow Vancouver R Strichartz Ithaca P Grabner and W Woess both Graz the latter two being the local organizers and editors of this volume We made an effort to unite in the conference as well as in the present pro ceedings a multitude of different directions of active current work and to bring together researchers from various countries as well as research fields that all are linked in some way with the modern theory of fractal structures Although or because in Graz there is only a very small group working on fractal structures consisting of non insiders we hope to have been successful with this program of wide horizons All papers were written upon explicit invitation by the editors and we are happy to be able to present this representative panorama of recent work on poten tial theory random walks spectral theory fractal groups dynamic systems fractal geometry and more The papers presented here underwent a refereeing process *Fractals in Graz 2001* Peter J. Grabner,Wolfgang Woess,2003 This book contains the proceedings of the conference Fractals in Graz 2001 Analysis Dynamics Geometry Stochastics that was held in June 2001 at Graz University of Technology Styria Austria The volume presents a multitude of different directions of active current research linked with the modern theory of fractal structures All papers were written upon invitation by the editors Midwest Fractals in Graz 2001 Peter Grabner,Wolfgang Woess,2012-12-06 This book contains the proceedings of the conference Fractals in Graz 2001 Analysis Dynamics Geometry Stochastics that was held in the second week of June 2001 at Graz University of Technology in the capital of Styria southeastern province of Austria The scientific committee of the meeting consisted of M Barlow Vancouver R Strichartz Ithaca P Grabner and W Woess both Graz

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Meeting,2005   **German books in print** ,2002   *Fractal Geometry and Stochastics VI* Uta Freiberg,Ben Hambly,Michael Hinz,Steffen Winter,2021-03-23 This collection of contributions originates from the well established conference series Fractal Geometry and Stochastics which brings together researchers from different fields using concepts and methods from fractal geometry Carefully selected papers from keynote and invited speakers are included both discussing exciting new trends and results and giving a gentle introduction to some recent developments The topics covered include Assouad dimensions and their connection to analysis multifractal properties of functions and measures renewal theorems in dynamics dimensions and topology of random discrete structures self similar trees p hyperbolicity phase transitions from continuous to discrete scale invariance scaling limits of stochastic processes stemi stable distributions and fractional differential equations and diffusion limited aggregation Representing a rich source of ideas and a good starting point for more advanced topics in fractal geometry the volume will appeal to both established experts and newcomers   *Fractal Geometry and Stochastics IV* Christoph Bandt,Peter Mörters,Martina Zähle,2010-01-08 Over the last fifteen years fractal geometry has established itself as a substantial mathematical theory in its own right The interplay between fractal geometry analysis and stochastics has highly influenced recent developments in mathematical modeling of complicated structures This process has been forced by problems in these areas related to applications in statistical physics biomathematics and finance This book is a collection of survey articles covering many of the most recent developments like Schramm Loewner evolution fractal scaling limits exceptional sets for percolation and heat kernels on fractals The authors were the keynote speakers at the conference Fractal Geometry and Stochastics IV at Greifswald in September 2008   **Fractal Geometry and Stochastics IV** Christoph Bandt,Peter Mörters,Martina Zähle,2010-10-22 Over the last fifteen years fractal geometry has established itself as a substantial mathematical theory in its own right The interplay between fractal geometry analysis and stochastics has highly influenced recent developments in mathematical modeling of complicated structures This process has been forced by problems in these areas related to applications in statistical physics biomathematics and finance This book is a collection of survey articles covering many of the most recent developments like Schramm Loewner evolution fractal scaling limits exceptional sets for percolation and heat kernels on fractals The authors were the keynote speakers at the conference Fractal Geometry and Stochastics IV at Greifswald in September 2008   **Fractal Geometry and Stochastics III** Christoph Bandt,Umberto Mosco,Martina Zähle,2012-12-06 Fractal geometry is used to model complicated natural and technical phenomena in various disciplines like physics biology finance and medicine Since most convincing models contain an element of randomness stochastics enters the area in a natural way This book documents the establishment of fractal geometry as a substantial mathematical theory As in the previous volumes which appeared in 1998 and 2000 leading experts known for clear exposition were selected as authors They survey their field of expertise emphasizing recent developments and open problems Main topics include multifractal measures dynamical systems stochastic processes and random fractals harmonic

analysis on fractals *Analysis, Probability And Mathematical Physics On Fractals* Patricia Alonso Ruiz,Joe Po-chou Chen,Luke G Rogers,Alexander Teplyaev,2020-02-26 In the 50 years since Mandelbrot identified the fractality of coastlines mathematicians and physicists have developed a rich and beautiful theory describing the interplay between analytic geometric and probabilistic aspects of the mathematics of fractals Using classical and abstract analytic tools developed by Cantor Hausdorff and Sierpinski they have sought to address fundamental questions How can we measure the size of a fractal set How do waves and heat travel on irregular structures How are analysis geometry and stochastic processes related in the absence of Euclidean smooth structure What new physical phenomena arise in the fractal like settings that are ubiquitous in nature This book introduces background and recent progress on these problems from both established leaders in the field and early career researchers The book gives a broad introduction to several foundational techniques in fractal mathematics while also introducing some specific new and significant results of interest to experts such as that waves have infinite propagation speed on fractals It contains sufficient introductory material that it can be read by new researchers or researchers from other areas who want to learn about fractal methods and results Fractal Geometry and Stochastics II Christoph Bandt,Siegfried Graf,Martina Zähle,2012-12-06 The second conference on Fractal Geometry and Stochastics was held at Greifs wald Koserow Germany from August 28 to September 2 1998 Four years had passed after the first conference with this theme and during this period the interest in the subject had rapidly increased More than one hundred mathematicians from twenty two countries attended the second conference and most of them presented their newest results Since it is impossible to collect all these contributions in a book of moderate size we decided to ask the 13 main speakers to write an account of their subject of interest The corresponding articles are gathered in this volume Many of them combine a sketch of the historical development with a thorough discussion of the most recent results of the fields considered We believe that these surveys are of benefit to the readers who want to be introduced to the subject as well as to the specialists We also think that this book reflects the main directions of research in this thriving area of mathematics We express our gratitude to the Deutsche Forschungsgemeinschaft whose financial support enabled us to organize the conference The Editors Introduction Fractal geometry deals with geometric objects that show a high degree of irregu larity on all levels of magnitude and therefore cannot be investigated by methods of classical geometry but nevertheless are interesting models for phenomena in physics chemistry biology astronomy and other sciences

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