

Aura Heydenreich und Klaus Mecke

## **Romane schreiben wäre eine Lösung. Über die Vernetzung von Naturwissenschaft und Literatur**

Ulrich Woelk im Dialog zu »Freigang«, »Die Einsamkeit des Astronomen«, »Joana Mandelbrot und ich«

*HEYDENREICH: Sie beschäftigen sich mit den Beziehungen zwischen Physik und Literatur bereits seit sehr langer Zeit. Wie zahlreichen Essays und fiktionalen Prosatexten zu entnehmen ist, begleitet Sie diese Thematik schon seit vielen Jahren. Seit dem 1990 Ihr Roman »Freigang« erschienen ist, ist Ihre Begeisterung für diese beiden augenscheinlich diametral entgegengesetzten Themenbereiche auch uns und einem breiten Publikum bekannt. Könnten Sie uns wichtige Stationen und Wegmarken Ihres Denkens über dieses Verhältnis schildern?*

WOELK: Nun, die naturwissenschaftliche Ebene und das Interesse daran waren bei mir schon immer da – auch im Hinblick auf meine schulische Laufbahn. Das Geschichtenerzählen kam dann durch meine Beschäftigung mit Literatur, wie zum Beispiel mit dem »Steppenwolf« im Alter von 14, 15 Jahren hinzu. Man fängt natürlich nicht gleich an, über diese beiden Bereiche in ihrer umfassenden Komplexität nachzudenken. Zunächst war dies mehr eine friedliche Koexistenz zweier Materien, die mich faszinierten. Ich begann dann auf der einen Seite die kanonischen Werke der Literatur zu lesen, auf der anderen Seite habe ich Physik studiert und dann sehr bald aber angefangen, selbst literarisch zu arbeiten. Dies natürlich immer unter Vorbehalt, denn retrospektiv gesehen haben jene Texte, die in der Anfangszeit entstanden, natürlich noch nicht das Niveau, das man später an sich selbst stellt. Jedenfalls waren schon immer die Versuche da, mit Texten zu arbeiten. Dazu kam eine intensive Beschäftigung mit der europäischen Philosophie. Die Verbindung zwischen Physik und Philosophie ist offensichtlich, weil sich diese beiden Bereiche mit der Konstitution der Welt befassen, um diese irgendwie in den Griff zu bekommen. Für mich war klar, dass zwischen den beiden Gebieten eine enge Verbindung besteht. So habe ich zunächst in diesen Disziplinen danach gefahndet, wie sich möglicherweise philosophische Aspekte in physikalischen Sachverhalten und Theorien wiederfinden – und umgekehrt.

Als Stichwort möchte ich hier die Quantenmechanik nennen – ein Thema, das bis heute aktuell ist. Die Frage nämlich, inwieweit wir durch unsere Anwesenheit als Beobachter die Welt in ihrer Art verändern. Ohne jetzt tiefer darauf eingehen zu wollen, ist bei der Beschäftigung mit solch elementaren physikalischen Fragen der Weg zur Philosophie schnell eingeschlagen. Mit Philosophie habe ich mich in

# Joana Mandelbrot Und Ich

**Yicheng Fang**



## Joana Mandelbrot Und Ich:

**Physik und Poetik** Aura Heydenreich, Klaus Mecke, 2015-10-16 The series Literature and the Natural Sciences is published under the auspices of the Erlangen Research Center for Literature and Natural Science ELINAS Researchers from different academic disciplines pool their expertise and methodological know how to examine how language is used in scientific research and how scientific forms of knowledge are negotiated in literature The series is conceived as an interdisciplinary platform that reflects on the cultural significance of scientific and literary research as well as on the rhetoric and ethics of research in the natural sciences more broadly

**Vo - Z** Wilhelm Kühlmann, 2011-09-29 Vollständig bearbeitet aktualisiert und deutlich erweitert liegt die zweite Auflage des Killy Literaturlexikons nun abgeschlossen vor Damit wird ein renommiertes Standardwerk der deutschen Literaturwissenschaft für Wissenschaftler Studenten und Literaturliebhaber unserer Zeit in neuer Qualität vorgelegt Erstmals erschienen in den Jahren 1988 bis 1993 ist der Killy heute ein in Fach und Literaturkreisen bekanntes und renommiertes Nachschlagewerk das bibliografische Artikel zu allen wichtigen deutschsprachigen Autoren vom Mittelalter bis in die Gegenwart präsentiert Die knapp 8 000 gut lesbaren Artikel bieten umfassende Einführungen zu den vorgestellten Autoren und bestechen durch eine Zusammenschau von Biografie zeitgeschichtlichem Kontext und Werk wie sie kein anderes Lexikon zur deutschen Literatur bietet Ein besonderer Pluspunkt des Killy ist sein weit gefasster Literaturbegriff der nicht nur die großen und wichtigsten Autoren einer jeden Epoche erfasst sondern auch Journalisten Drehbuchautoren Literaturwissenschaftler und Unterhaltungsschriftsteller sowie alle die zu ihrer Zeit und durch ihr schriftstellerisches Schaffen gewirkt haben und im kulturellen Leben von Bedeutung waren Mit seinen umfassend aktualisierten Einträgen und Bibliografien und dem um über 1000 neue Autoren erweiterten Artikelbestand bildet der neue Killy die gesamte deutsche Literaturgeschichte unter Einschluss auch der jüngsten und aktuellsten Entwicklungen ab und ist damit ein unverzichtbares Nachschlagewerk für jeden der sich für die deutsche Literatur ihre Schöpfer und Themen interessiert Die Neuauflage des Killy erscheint in 13 Bänden Bde 1-12 Autoren und Werke Bd 13 Register 2022/2023, 2022-11-07 Die bewährte Dokumentation der zeitgenössischen deutschsprachigen Literaturszene umfasst über 9 000 Einträge lebender Verfasserinnen und Verfasser schreibender Literatur in deutscher Sprache Adressen Lebensdaten Mitgliedschaften Auszeichnungen sowie 140 000 Veröffentlichungen im Anhang u.a. Übersetzer Verlage Literaturpreise Fachverbände Literaturhäuser Zeitschriften Agenturen Festkalender Nekrolog geographische Übersicht

**Zahlen, Zeichen und Figuren** Andrea Albrecht, Gesa von Essen, Werner Frick, 2011-12-23 Der Sammelband fragt nach dem Verhältnis zwischen der Mathematik und den Künsten vom Mittelalter bis in die Gegenwart Untersucht wird der Einfluss mathematischer Wissensordnungen Quantifizierungs Formalisierungs und Abstraktionsverfahren auf das musikalische bildnerische und poetische Schaffen Aus der Fülle der herangezogenen historischen Paradigmen wird deutlich dass die Bereitschaft der Komponisten Künstler und Dichter sich durch die Eigentlichkeit der Mathematik herausfordern und

sthetisch inspirieren zu lassen viel gr er war als gemeinhin angenommen wird Im Vordergrund der Beitr ge stehen einerseits thematische Reflexionen des Mathematischen in Kunst und Literatur andererseits mathematische Ordnungsprinzipien formaler sthetischer Gestaltungsprozesse Die interdisziplin re Zusammenschau dieser Austauschverh ltnisse l sst erkennen dass die K nste f r die kulturwissenschaftliche Reflexion einen Schauplatz darstellen auf dem sich verschiedenste Str nge der Geschichte des Wissens miteinander kreuzen und zu komplexen sthetischen Konfigurationen verdichten Der Band bietet somit eine reiche aktuelle Materialgrundlage f r Forschungen an der Schnittstelle von Natur und Geisteswissenschaften

**Joana Mandelbrot und ich** Ulrich Woelk, 2008 Eine b se Satire auf den Literaturbetrieb ein Kompliment an die Mathematik und eine Huldigung an die St rke der Frauen Ein Berliner Mathematikprofessor praktiziert die Chaostheorie im eigenen Leben Als ein bekannter Feuilletonredakteur in ihm den Sensationsschriftsteller Leon Zern zu erkennen glaubt l sst er sich von seiner Agentin dazu berreden das falsche Spiel mitzumachen Statt als bescheidener Verfasser eines kleinen mathematischen Fachbuchs gilt er hinfort als Urheber eines grausamen Bestsellers in dem nach angeblich mathematischen Prinzipien die sich f r sein geschultes Auge als v lliger Humbug erweisen reihenweise junge Frauen geschlachtet werden Und dann erkl rt ihm auch noch die usserst selbstbewusste Liebesdienerin Joana der er jeden Freitagnachmittag seine ganze Person anvertraut dass sie jetzt ebenfalls Autorin geworden sei Er m ge ihr Manuskript doch unter seinem Namen ver ffentlichen Wundert es irgendjemand dass der autobiographische kleine Roman ein Erfolg und die sch ne Joana zur Hauptdarstellerin wird auf der B hne des Lebens Ulrich Woelk 1960 geboren in K ln aufgewachsen studierte in T bingen Physik und promovierte 1991 an der TU Berlin wo er bis 1994 als Astrophysiker t tig war Heute lebt der Erz hler und Dramatiker als freier Schriftsteller in Berlin Literarische Arbeiten seit den 1980er Jahren Aspekte Literaturpreis f r das Deb t Freigang 1990 Weitere Romane und Erz hlungen R ckspiel Amerikanische Reise Liebespaare Die letzte Vorstellung Einstein on the lake Die Einsamkeit des Astronomen Schr dingers Schlafzimmer und Joana Mandelbrot und ich Im Fr hjahr 2013 erscheint der Roman Was Liebe ist

**Kürschners deutscher Literatur-Kalender** Heinrich Hart, Julius Hart, Joseph Kürschner, Hermann Hillger, Heinrich Klenz, Gerhard Lüttke, Erich Neuner, Hans Strodel, 2010 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen, 2008 *Zitty*, 2009 2024/2025, 2024-12-30 Kürschners Deutscher Literatur Kalender seit ber 140 Jahren die bew hrte Dokumentation der zeitgen ssischen deutschsprachigen Literaturszene umfasst in seiner 74. Ausgabe Eintr ge zu ca. 9 000 Schriftstellerinnen und Schriftstellern Ohne literaturkritische Wertung stellt der Literatur Kalender die lebenden Verfasserinnen und Verfasser sch ngeistiger Literatur in deutscher Sprache vor unabh ngig von Staatsangeh rigkeit und geographischem Lebens und Wirkungsbereich Die Artikel informieren ber Adressen Lebensdaten Mitgliedschaften in Fachverb nden und literarischen Vereinigungen literarische Preise sowie die Ver ffentlichungen der Schriftstellerinnen und Schriftsteller Neu bearbeitet und aktualisiert wurden auch die umfangreichen Verzeichnisse im Anhang ber 1 000 literarische bersetzerinnen und bersetzer

mit Sprachenregister über 700 Verlage über 500 Literaturpreise mit den Preisträgern der letzten Jahre mehr als 500 Fachverbände und literarische Vereinigungen Literaturhäuser etwa 200 literarische Zeitschriften und Periodika sowie literarische Agenturen Kulturredaktionen von Rundfunk und Fernsehanstalten und literarische Feuilletons werden aufgeführt

Alhambra Kirsten Boie, 2014-02-26 Granada 1492 Ein Tor in der Zeit und plötzlich verändert sich die Welt Gerade war Boston noch mit seinen Mitschülern auf dem arabischen Seidenmarkt in Granada Plötzlich ist alles anders Durch ein Tor in der Zeit ist Boston im Jahr 1492 gelandet Dort wird es für ihn lebensgefährlich Er erweckt Misstrauen am spanischen Königshof und auf der Alhambra gerät er in die grausamen Fänge der Inquisition Doch zwei neue Freunde Tariq und Salomon als Muslim und Jude selbst bedroht stehen ihm in dieser fast ausweglosen Situation bei Aber die Rückkehr Bostons hängt nicht nur davon ab ob er den Schlüssel zur Gegenwart findet sondern auch von der Entdeckung Amerikas Ein großer Roman von Kirsten Boie fesselnd spannend faszinierend bis zur letzten Seite **Contesting Earth's Future** Michael E.

Zimmerman, 2023-11-15 Radical ecology typically brings to mind media images of ecological activists standing before loggers saws staging anti nuclear marches and confronting polluters on the high seas Yet for more than twenty years the activities of organizations such as the Greens and Earth First have been influenced by a diverse less publicized group of radical ecological philosophers It is their work the philosophical underpinnings of the radical ecological movement that is the subject of *Contesting Earth's Future* The book offers a much needed balanced appraisal of radical ecology's principles goals and limitations Michael Zimmerman critically examines the movement's three major branches deep ecology social ecology and ecofeminism He also situates radical ecology within the complex cultural and political terrain of the late twentieth century showing its relation to Martin Heidegger's anti technological thought 1960s counterculturalism and contemporary theories of poststructuralism and postmodernity An early and influential ecological thinker Zimmerman is uniquely qualified to provide a broad overview of radical environmentalism and delineate its various schools of thought He clearly describes their defining arguments and internecine disputes among them the charge that deep ecology is an anti modern proto fascist ideology Reflecting both the movement's promise and its dangers this book is essential reading for all those concerned with the worldwide ecological crisis Radical ecology typically brings to mind media images of ecological activists standing before loggers saws staging anti nuclear marches and confronting polluters on the high seas Yet for more than twenty years the activities of organizations such as *Morning Food* Margaret S. Fox, John B. Bear, 2013-12-10 For more than 20 years Margaret Fox served up some of California's tastiest breakfasts and brunches at her landmark restaurant Caf Beaujolais on the Mendocino coast The original MORNING FOOD shared Fox's legendary dishes and became a comfort food classic Fully revised with the addition of 30 new recipes evocative photographs and a fresh look the new edition of MORNING FOOD has all the cozy appeal and culinary authority of the original in a charming new package Reviews It's a book worth getting up for San Francisco Chronicle With homey graphics and photographs and authors named Fox and Bear the book has a cozy feeling

that matches its subject Philadelphia Inquirer and Baltimore Sun Whether you re a Caf Beaujolais neophyte or a longtime groupie Morning Food is a treasure Kansas City Star for those who love breakfast any time of day Omaha World HeraldAn unpretentious take on wonderful homey food Sacramento BeeCaf Beaujolais founder finds a delicious new calling Los Angeles TimesMorning Food belies its contents these are foods that diners would find satisfying and nurturing at any time of day the Buttermilk Cinnamon Coffee Cake is incredible Contra Costa Times Fox s conversational tone makes you want to pick up the phone to call and chat it up with her as you whip up your mouth watering first meal of the day The recipes are consistently delicious and impressive If you enjoy good morning food you ll enjoy this book any time of day Cookbook Digest

**Philosophy in Reality** Joseph E. Brenner, Abir U. Igamberdiev, 2020-11-30 Philosophy in Reality offers a new vision of the relation between science and philosophy in the framework of a non propositional logic of real processes grounded in the physics of the real world This logical system is based on the work of the Franco Romanian thinker St phane Lupasco 1900 1988 previously presented by Joseph Brenner in the book Logic in Reality Springer 2008 The present book was inspired in part by the ancient Chinese Book of Changes I Ching and its scientific philosophical discussion of change The emphasis in Philosophy in Reality is on the recovery of dialectics and semantics from reductionist applications and their incorporation into a new synthetic paradigm for knowledge Through an original re interpretation of both classical and modern Western thought this book addresses philosophical issues in scientific fields as well as long standing conceptual problems such as the origin nature and role of meaning the unity of knowledge and the origin of morality In a rigorous transdisciplinary manner it discusses foundational and current issues in the physical sciences mathematics information communication and systems theory and their implications for philosophy The same framework is applied to problems of the origins of society the transformation of reality by human subjects and the emergence of a global sustainable information society In summary Philosophy in Reality provides a wealth of new perspectives and references supporting research by both philosophers and physical and social scientists concerned with the many facets of reality

**Fractal Solutions for Understanding Complex Systems in Earth Sciences** V.P. Dimri, 2015-11-21 This book deals with fractals in understanding problems encountered in earth science and their solutions It starts with an analysis of two classes of methods homogeneous fractals random models and homogeneous source distributions or one point distributions widely diffused in the geophysical community especially for studying potential fields and their related source distributions Subsequently the use of fractals in potential fields is described by scaling spectral methods for estimation of curie depth The book also presents an update of the use of the fractal concepts in geological understanding of faults and their significance in geological modelling of hydrocarbon reservoirs Geophysical well log data provide a unique description of the subsurface lithology here the Detrended Fluctuation Analysis technique is presented in case studies located off the west coast of India Another important topic is the fractal model of continuum percolation which quantitatively reproduce the flow path geometry by applying the Poiseuille s equation The pattern of

fracture heterogeneity in reservoir scale of natural geological formations can be viewed as spatially distributed self similar tree structures here the authors present simple analytical models based on the medium structural characteristics to explain the flow in natural fractures The Fractal Differential Adjacent Segregation F DAS is an unconventional approach for fractal dimension estimation using a box count method The present analysis provides a better understanding of variability of the system adsorbents adsorbate interactions Towards the end of book the authors discuss multi fractal scaling properties of seismograms in order to quantify the complexity associated with high frequency seismic signals Finally the book presents a review on fractal methods applied to fire point processes and satellite time continuous signals that are sensitive to fire occurrences

**Literary and Visual Representations of HIV/AIDS** Aimee Pozorski, Jennifer J. Lavoie, Christine J. Cynn, 2019-11-06 Literary and Visual Representations of HIV AIDS Forty Years Later depicts how film and literature about the HIV AIDS crisis expand upon the issues generated by the epidemic This collection fills an important gap in the scholarship on HIV AIDS by bringing together essays by both established and junior scholars on visual and literary representations of HIV AIDS Almost forty years after the first reported cases of what would later be defined as AIDS this book looks back across the decades at works of literature and film to discuss how the representation of HIV AIDS has shifted in media This book argues that literature constitutes a very powerful response to AIDS that ripples into film and politics driving the changes in past and contemporary representations of HIV AIDS The book also expands discussion of the issues generated and amplified by the epidemic to consider how HIV AIDS has been portrayed in the United States Western and Southern Africa Western Europe and East Asia

*Perspectives in Dynamical Systems II — Numerical and Analytical Approaches* Jan Awrejcewicz, 2024-06-18 This proceedings volume gathers selected peer reviewed papers presented at the Dynamical Systems Theory and Applications International Conference DSTA 2021 held virtually on December 6 9 2021 organized by the Department of Automation Biomechanics and Mechatronics at Lodz University of Technology Poland This volume focuses on numerical and analytical approaches while Volume I concentrates on studies on applications Being a truly international conference this 16th iteration of DSTA received submissions from authors representing 52 countries The program covered both theoretical and experimental approaches to widely understood dynamical systems including topics devoted to bifurcations and chaos control in dynamical systems asymptotic methods in nonlinear dynamics stability of dynamical systems lumped mass and continuous systems vibrations original numerical methods of vibration analysis non smooth systems dynamics in life sciences and bioengineering as well as engineering systems and differential equations DSTA conferences aim to provide a common platform for exchanging new ideas and results of recent research in scientific and technological advances in modern dynamical systems Works contained in this volume can appeal to researchers in the field whether in mathematics or applied sciences and practitioners in myriad industries

*The Routledge Companion to Digital Humanities and Art History* Kathryn Brown, 2020-04-15 The Routledge Companion to Digital Humanities and Art History

offers a broad survey of cutting edge intersections between digital technologies and the study of art history museum practices and cultural heritage The volume focuses not only on new computational tools that have been developed for the study of artworks and their histories but also debates the disciplinary opportunities and challenges that have emerged in response to the use of digital resources and methodologies Chapters cover a wide range of technical and conceptual themes that define the current state of the field and outline strategies for future development This book offers a timely perspective on trans disciplinary developments that are reshaping art historical research conservation and teaching This book will be of interest to scholars in art history historical theory method and historiography and research methods in education

**Linguistic Diversity and Language Theories** Zygmunt Frajzyngier,Adam Hodges,David S. Rood,2005-02-28 From the refinement of general methodology to new insights of synchronic and diachronic universals to studies of specific phenomena this collection demonstrates the crucial role that language data play in the evolution of useful accurate linguistic theories Issues addressed include the determination of meaning in typological studies a refined understanding of diachronic processes by including intentional social statistical and level determined phenomena the reconsideration of categories such as sentence evidential or adposition and structures such as compounds or polysynthesis the tension between formal simplicity and functional clarity the inclusion of unusual systems in theoretical debates and fresh approaches to Chinese classifiers possession in Oceanic languages and English aspect This is a careful selection of papers presented at the International Symposium on Linguistic Diversity and Language Theories in Boulder Colorado The purpose of the Symposium was to confront fundamental issues in language structure and change with the rich variation of forms and functions observed across languages

The World of Indicators Richard Rottenburg,Sally E. Merry,Sung-Joon Park,Johanna Mugler,2015-09-15 The twenty first century has seen a further dramatic increase in the use of quantitative knowledge for governing social life after its explosion in the 1980s Indicators and rankings play an increasing role in the way governmental and non governmental organizations distribute attention make decisions and allocate scarce resources Quantitative knowledge promises to be more objective and straightforward as well as more transparent and open for public debate than qualitative knowledge thus producing more democratic decision making However we know little about the social processes through which this knowledge is constituted nor its effects Understanding how such numeric knowledge is produced and used is increasingly important as proliferating technologies of quantification alter modes of knowing in subtle and often unrecognized ways This book explores the implications of the global multiplication of indicators as a specific technology of numeric knowledge production used in governance

**Dictionary of Mathematical Geosciences** Richard J. Howarth,2017-05-27 This dictionary includes a number of mathematical statistical and computing terms and their definitions to assist geoscientists and provide guidance on the methods and terminology encountered in the literature Each technical term used in the explanations can be found in the dictionary which also includes explanations of basics such as trigonometric functions and logarithms

There are also citations from the relevant literature to show the term's first use in mathematics statistics etc and its subsequent usage in geosciences

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## **Joana Mandelbrot Und Ich Introduction**

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