Geometry on Poincaré Spaces

by

Jean-Claude Hausmann
and
Pierre Vogel

Mathematical Notes 41

Geometry On Poincare Spaces

Francesca Biagioli

Geometry On Poincare Spaces:

    Geometry on Poincaré Spaces Jean-Claude Hausmann,Pierre Vogel,1993 A Poincar space is a topological space satisfying Poincar duality as a compact manifold This book explains how to perform in the category of Poincar spaces a certain number of geometric constructions which are usual in the world of manifolds surgery handle techniques transversality etc These constructions turn out to be useful in solving manifold problems such as embeddings and group actions This is the first book to be published on this subject The methods are based on standard surgery theory and elementary homotopy arguments   Space, Number, and Geometry from Helmholtz to Cassirer Francesca Biagioli,2016-08-22 This book offers a reconstruction of the debate on non Euclidean geometry in neo Kantianism between the second half of the nineteenth century and the first decades of the twentieth century Kant famously characterized space and time as a priori forms of intuitions which lie at the foundation of mathematical knowledge The success of his philosophical account of space was due not least to the fact that Euclidean geometry was widely considered to be a model of certainty at his time However such later scientific developments as non Euclidean geometries and Einstein s general theory of relativity called into question the certainty of Euclidean geometry and posed the problem of reconsidering space as an open question for empirical research The transformation of the concept of space from a source of knowledge to an object of research can be traced back to a tradition which includes such mathematicians as Carl Friedrich Gauss Bernhard Riemann Richard Dedekind Felix Klein and Henri Poincar and which finds one of its clearest expressions in Hermann von Helmholtz s epistemological works Although Helmholtz formulated compelling objections to Kant the author reconsiders different strategies for a philosophical account of the same transformation from a neo Kantian perspective and especially Hermann Cohen s account of the aprioricity of mathematics in terms of applicability and Ernst Cassirer s reformulation of the a priori of space in terms of a system of hypotheses This book is ideal for students scholars and researchers who wish to broaden their knowledge of non Euclidean geometry or neo Kantianism   *Harmonic Analysis on Symmetric Spaces—Euclidean Space, the Sphere, and the Poincaré Upper Half-Plane* Audrey Terras,2013-09-12 This unique text is an introduction to harmonic analysis on the simplest symmetric spaces namely Euclidean space the sphere and the Poincar upper half plane This book is intended for beginning graduate students in mathematics or researchers in physics or engineering Written with an informal style the book places an emphasis on motivation concrete examples history and above all applications in mathematics statistics physics and engineering Many corrections and updates have been incorporated in this new edition Updates include discussions of P Sarnak and others work on quantum chaos the work of T Sunada Marie France Vign ras Carolyn Gordon and others on Mark Kac s question Can you hear the shape of a drum A Lubotzky R Phillips and P Sarnak s examples of Ramanujan graphs and finally the author s comparisons of continuous theory with the finite analogues Topics featured throughout the text include inversion formulas for Fourier transforms central limit theorems Poisson s summation

formula and applications in crystallography and number theory applications of spherical harmonic analysis to the hydrogen atom the Radon transform non Euclidean geometry on the Poincar upper half plane H or unit disc and applications to microwave engineering fundamental domains in H for discrete groups tessellations of H from such discrete group actions automorphic forms and the Selberg trace formula and its applications in spectral theory as well as number theory   The Mathematical Heritage of Henri Poincaré Felix E. Browder,1983 On April 7 10 1980 the American Mathematical Society sponsored a Symposium on the Mathematical Heritage of Henri Poincari held at Indiana University Bloomington Indiana This title presents the written versions this Symposium It contains two papers by invited speakers who were not able to attend S S Chern and L Nirenberg   Mediations in Cultural Spaces John Wall,2009-03-26 The essays collected in this volume address the cultural and intellectual production of space Cultures under discussion may be identified at a general level according to notional designations of East and West and range from those of Iran Turkey Western Europe and the United States While the interests orientations and methodologies of the individual contributions are diverse there is a general tendency to forgo official national and regional discourses of social space in favour of discussions exploring the material and intellectual conditions according to which cultural entities come to see themselves as spatially located and or dislocated To this end this volume brings together philosophical historical and critical interpretative treatments of virtual space architecture music sculpture literature religion advertising politics and the cyberspace of the new media Space is variously conceived in terms of the radical imaginary metaphor irruption intensity mimesis ontology the materiality of the earth power and emancipation There is expressed the conviction in these essays that interdisciplinary and eclectic approaches combined with sustained and critical reflection on concepts of space contribute to an understanding of space as radically mobile   **Understanding Space-Time** Robert DiSalle,2006-04-27 Presenting the history of space time physics from Newton to Einstein as a philosophical development DiSalle reflects our increasing understanding of the connections between ideas of space and time and our physical knowledge He suggests that philosophy s greatest impact on physics has come about less by the influence of philosophical hypotheses than by the philosophical analysis of concepts of space time and motion and the roles they play in our assumptions about physical objects and physical measurements This way of thinking leads to interpretations of the work of Newton and Einstein and the connections between them It also offers ways of looking at old questions about a priori knowledge the physical interpretation of mathematics and the nature of conceptual change Understanding Space Time will interest readers in philosophy history and philosophy of science and physics as well as readers interested in the relations between physics and philosophy   Poincaré, Philosopher of Science María de Paz,Robert DiSalle,2014-04-11 This volume presents a selection of papers from the Poincar Project of the Center for the Philosophy of Science University of Lisbon bringing together an international group of scholars with new assessments of Henri Poincar s philosophy of science both its historical impact on the foundations of science and mathematics and its relevance to contemporary philosophical inquiry The

work of Poincar 1854 1912 extends over many fields within mathematics and mathematical physics But his scientific work was inseparable from his groundbreaking philosophical reflections and the scientific ferment in which he participated was inseparable from the philosophical controversies in which he played a pre eminent part The subsequent history of the mathematical sciences was profoundly influenced by Poincar s philosophical analyses of the relations between and among mathematics logic and physics and more generally the relations between formal structures and the world of experience The papers in this collection illuminate Poincar s place within his own historical context as well as the implications of his work for ours   **The Poincare Conjecture** Donal O'Shea,2009-05-26 Henri Poincar was one of the greatest mathematicians of the late nineteenth and early twentieth century He revolutionized the field of topology which studies properties of geometric configurations that are unchanged by stretching or twisting The Poincar conjecture lies at the heart of modern geometry and topology and even pertains to the possible shape of the universe The conjecture states that there is only one shape possible for a finite universe in which every loop can be contracted to a single point Poincar s conjecture is one of the seven millennium problems that bring a one million dollar award for a solution Grigory Perelman a Russian mathematician has offered a proof that is likely to win the Fields Medal the mathematical equivalent of a Nobel prize in August 2006 He also will almost certainly share a Clay Institute millennium award In telling the vibrant story of The Poincar Conjecture Donal O Shea makes accessible to general readers for the first time the meaning of the conjecture and brings alive the field of mathematics and the achievements of generations of mathematicians whose work have led to Perelman s proof of this famous conjecture

Fractal Narrative German A. Duarte,2014-09-15 Fractals suggest recursivity infinity and the repetition of a principle of order They are digital pictures of the universe s continuous movement ignored by mankind during millennia This book investigates the relationship existing between geometries and technology and how it guided cognitive processes and thus the organization of narrative spaces The author proposes a new approach for the study of media remarking that from Bacon s camera obscura to von Neumann s computers both geometries and technology strongly influenced the organization of narrative spaces which acquired a fractal character   **Imagery in Scientific Thought Creating 20th-Century Physics** MILLER,2013-12-21   **Quantum Field Theory Conformal Group Theory Conformal Field Theory** R. Mirman,2005-02 The conformal group is the invariance group of geometry which is not understood the largest one Physical applications are implied as discussed including reasons for interactions The group structure as well as those of related groups are analyzed An inhomogeneous group is a subgroup of a homogeneous one because of nonlinearities of the realization Conservation of baryons protons can t decay is explained and proven Reasons for various realizations so matrix elements of the Lorentz group given The clearly relevant mass level formula is compared with experimental values Questions implications and possibilities including for differential equations are raised   **Shapes of Time** Michael McGillen,2023-12-15 Shapes of Time explores how concepts of time and history were spatialized in early twentieth century German thought Michael McGillen locates

efforts in German modernism to conceive of alternative shapes of time beyond those of historicism and nineteenth century philosophies of history at the boundary between secular and theological discourses By analyzing canonical works of German modernism those of Karl Barth Franz Rosenzweig Siegfried Kracauer and Robert Musil he identifies the ways in which spatial imagery and metaphors were employed to both separate the end of history from a narrative framework and to map the liminal relation between history and eschatology Drawing on theories and practices as disparate as constructivism non Euclidean geometry photography and urban architecture Shapes of Time presents original connections between modernism theology and mathematics as played out within the canon of twentieth century German letters Concepts of temporal and spatial form McGillen contends contribute to the understanding not only of modernist literature but also of larger theoretical concerns within modern cultural and intellectual history **Space-Time Geometries for Motion and Perception in the Brain and the Arts** Tamar Flash,Alain Berthoz,2021-01-04 This book is based on a two day symposium at the Paris Institute of Advanced Study titled space time geometries and movement in the brain and the arts It includes over 20 chapters written by the leading scientists and artists who presented their related research studies at the symposium and includes six sections the first three focus on space time geometries in perception action and memory while the last three focus on specific artistic domains drawing and painting dance music digital arts and robotics The book is accompanied by a dedicated webpage including related images and videos There is an ever growing interest in the topics covered by this book Space and time are of fundamental importance for our understanding of human perception action memory and cognition and are entities which are equally important in physics biology neuroscience and psychology Highly prominent scientists and mathematicians have expressed their belief that our bodies and minds shape the ways we perceive space and time and the physical laws we formulate Understanding how the brain perceives motion and generates bodily movements is of great significance There is also growing interest in studying how space time and movement subserve artistic creations in different artistic modalities e g fine arts digital and performing arts and music This interest is inspired by the idea that artists make intuitive use of the principles and simplifying strategies used by the brain in movement generation and perception Building upon new understanding of the spatio temporal geometries subserving movement generation and perception by the brain we can start exploring how artists make use of such neuro geometrical and neuro dynamic representations in order to express artistic concepts and emotionally affect the human observers and listeners Scientists have also started formulating new ideas of how aesthetic judgements emerge from the principles and brain mechanisms subserving motor control and motion perception Covering novel and multidisciplinary topics this advanced book will be of interest to neuroscientists behavioral scientists artificial intelligence and robotics experts students and artists **Other Proof of Poincare's Hypothesis** Аркадий Сирис,2024-08-08 Not so long ago about 30 years ago not only the world community of mathematicians but other scientific communities and even non scientific communities with close attention some with partiality some without partiality but

followed with interest and even delved into scientific details of the proof of the Russian mathematician Grigory Perelman of the hypothesis that was formulated in 1904 by the outstanding French mathematician Henri Poincar I was also interested in the same evidence True the reason for my interest was not so much Perelman s proofs in their mathematical details but rather the formulation of the hypothesis itself which seemed to me an extremely interesting formulation of the problem of such manifolds the topological and metric properties of which in their unity with each other are the cause of the geometric shape of the space of the universe If someone asks why start the same scientific business if there is already a mathematical proof of the same hypothesis Firstly if anything determines the geometric shape of any space including the space of the universe then perhaps its physical content If so then from the standpoint of the spatial unity of the geometric form of the space of the universe and the physical content of the same geometric form Poincar s mathematical hypothesis is certainly a theoretically incomplete hypothesis All the same justifies the need for the science of physical and geometric science in their unity with themselves and among themselves to prove those manifolds physical and geometric manifolds the natural properties of which in their unity with each other are responsible for the spatial unity of the universe with itself Secondly since truth is not an absolute truth it reveals itself each time as a relative truth which does not prohibit but permits another proof of the same mathematical hypothesis which in a given place is no longer mathematical but geometrically physical and physically geometric **Fundamental Questions of Practical Cosmology** Yurij Baryshev,Pekka Teerikorpi,2011-10-15 This book guides readers astronomers physicists and university students through central questions of Practical Cosmology a term used by the late Allan Sandage to denote the modern scientific endeavor to find the cosmological model best describing the universe of galaxies its geometry size age and matter composition The authors draw on their personal experience in astrophysics and cosmology to explain key concepts of cosmology both observational and theoretical and to highlight several items which give cosmology its special character These highlighted items are Ideosyncratic features of the cosmic laboratory Malmquist bias in the determination of cosmic distances Theory of gravitation as a cornerstone of cosmological models Crucial tests for checking the reality of space expansion Methods of analyzing the structures of the universe as mapped by galaxies Usefulness of fractals as a model to describe the large scale structure and new cosmological physics inherent in the Friedmann world model The Brain's Sense of Movement Alain Berthoz,2002-09-30 This interpretation of perception and action allows Alain Berthoz to focus on psychological phenomena proprioception and kinaesthesis the mechanisms that maintain balance and co ordination actions and basic perceptual and memory processes involved in navigation Domain Adaptation and Representation Transfer Lisa Koch,M. Jorge Cardoso,Enzo Ferrante,Konstantinos Kamnitsas,Mobarakol Islam,Meirui Jiang,Nicola Rieke,Sotirios A. Tsaftaris,Dong Yang,2023-10-13 This book constitutes the refereed proceedings of the 5th MICCAI Workshop on Domain Adaptation and Representation Transfer DART 2023 which was held in conjunction with MICCAI 2023 in October 2023 The 16 full papers presented in this book were carefully reviewed and selected from 32

submissions They discuss methodological advancements and ideas that can improve the applicability of machine learning ML deep learning DL approaches to clinical setting by making them robust and consistent across different domains **Plato's Ghost** Jeremy Gray,2022-12-13 Plato s Ghost is the first book to examine the development of mathematics from 1880 to 1920 as a modernist transformation similar to those in art literature and music Jeremy Gray traces the growth of mathematical modernism from its roots in problem solving and theory to its interactions with physics philosophy theology psychology and ideas about real and artificial languages He shows how mathematics was popularized and explains how mathematical modernism not only gave expression to the work of mathematicians and the professional image they sought to create for themselves but how modernism also introduced deeper and ultimately unanswerable questions Plato s Ghost evokes Yeats s lament that any claim to worldly perfection inevitably is proven wrong by the philosopher s ghost Gray demonstrates how modernist mathematicians believed they had advanced further than anyone before them only to make more profound mistakes He tells for the first time the story of these ambitious and brilliant mathematicians including Richard Dedekind Henri Lebesgue Henri Poincar and many others He describes the lively debates surrounding novel objects definitions and proofs in mathematics arising from the use of na ve set theory and the revived axiomatic method debates that spilled over into contemporary arguments in philosophy and the sciences and drove an upsurge of popular writing on mathematics And he looks at mathematics after World War I including the foundational crisis and mathematical Platonism Plato s Ghost is essential reading for mathematicians and historians and will appeal to anyone interested in the development of modern mathematics   The Teaching of High School Mathematics Jasper O. Hassler,1926   Epistemology Michael Huemer,2002 This is a comprehensive anthology that draws together leading philosophers writing on major themes in epistemology Each section is prefaced by an introductory essay which guides students gently into each topic

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