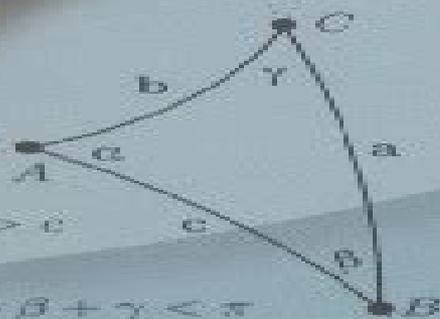


ANALYTIC HYPERBOLIC GEOMETRY

Mathematical Foundations and Applications



$$a = \ominus B \oplus C$$

$$b = \ominus C \oplus A$$

$$c = \ominus A \oplus B$$

$$\delta = \pi - \alpha - \beta - \gamma > 0$$

$$\|a\|^2 = \frac{\cos \alpha + \cos(\beta + \gamma)}{\cos \alpha + \cos(\beta - \gamma)}$$

$$\|b\|^2 = \frac{\cos \beta + \cos(\alpha + \gamma)}{\cos \beta + \cos(\alpha - \gamma)}$$

$$\|c\|^2 = \frac{\cos \gamma + \cos(\alpha + \beta)}{\cos \gamma + \cos(\alpha - \beta)}$$

$$a \oplus b > c$$

$$\alpha + \beta + \gamma < \pi$$

$$\cos \alpha = \frac{\ominus A \oplus B}{\|\ominus A \oplus B\|} \cdot \frac{\ominus A \oplus C}{\|\ominus A \oplus C\|}$$

$$\tan \frac{\delta}{2} = \frac{ab \sin \gamma}{1 - ab \cos \gamma}$$

Abraham A. Ungar



The Hyperbolic Pythagorean Theorem

$$a = \ominus B \oplus C, \quad a = \|a\|$$

$$b = \ominus C \oplus A, \quad b = \|b\|$$

$$c = \ominus A \oplus B, \quad c = \|c\|$$

$$a^2 \oplus b^2 = c^2$$



Analytic Hyperbolic Geometry Mathematical Foundations And Applications

**Dmitri Rabounski, Florentin
Smarandache, Larissa Borissova**



Analytic Hyperbolic Geometry Mathematical Foundations And Applications:

Analytic Hyperbolic Geometry Abraham A. Ungar, 2005 This is the first book on analytic hyperbolic geometry fully analogous to analytic Euclidean geometry Analytic hyperbolic geometry regulates relativistic mechanics just as analytic Euclidean geometry regulates classical mechanics The book presents a novel gyrovector space approach to analytic hyperbolic geometry fully analogous to the well known vector space approach to Euclidean geometry A gyrovector is a hyperbolic vector Gyrovectors are equivalence classes of directed gyrosegments that add according to the gyroparallelogram law just as vectors are equivalence classes of directed segments that add according to the parallelogram law In the resulting gyrolanguage of the book one attaches the prefix gyro to a classical term to mean the analogous term in hyperbolic geometry The prefix stems from Thomas gyration which is the mathematical abstraction of the relativistic effect known as Thomas precession Gyrolanguage turns out to be the language one needs to articulate novel analogies that the classical and the modern in this book share The scope of analytic hyperbolic geometry that the book presents is cross disciplinary involving nonassociative algebra geometry and physics As such it is naturally compatible with the special theory of relativity and particularly with the nonassociativity of Einstein velocity addition law Along with analogies with classical results that the book emphasizes there are remarkable disanalogies as well Thus for instance unlike Euclidean triangles the sides of a hyperbolic triangle are uniquely determined by its hyperbolic angles Elegant formulas for calculating the hyperbolic side lengths of a hyperbolic triangle in terms of its hyperbolic angles are presented in the book The book begins with the definition of gyrogroups which is fully analogous to the definition of groups Gyrogroups both gyrocommutative and non gyrocommutative abound in group theory Surprisingly the seemingly structureless Einstein velocity addition of special relativity turns out to be a gyrocommutative gyrogroup operation Introducing scalar multiplication some gyrocommutative gyrogroups of gyrovectors become gyrovector spaces The latter in turn form the setting for analytic hyperbolic geometry just as vector spaces form the setting for analytic Euclidean geometry By hybrid techniques of differential geometry and gyrovector spaces it is shown that Einstein M bius gyrovector spaces form the setting for Beltrami Klein Poincar ball models of hyperbolic geometry Finally novel applications of M bius gyrovector spaces in quantum computation and of Einstein gyrovector spaces in special relativity are presented [Essays in Mathematics and its Applications](#) Themistocles M. Rassias, Panos M. Pardalos, 2016-06-14 This volume dedicated to the eminent mathematician Vladimir Arnold presents a collection of research and survey papers written on a large spectrum of theories and problems that have been studied or introduced by Arnold himself Emphasis is given to topics relating to dynamical systems stability of integrable systems algebraic and differential topology global analysis singularity theory and classical mechanics A number of applications of Arnold s groundbreaking work are presented This publication will assist graduate students and research mathematicians in acquiring an in depth understanding and insight into a wide domain of research of an interdisciplinary nature [Nonlinear](#)

Analysis Panos M. Pardalos, Pando G. Georgiev, Hari M. Srivastava, 2012-06-02 The volume will consist of about 40 articles written by some very influential mathematicians of our time and will expose the latest achievements in the broad area of nonlinear analysis and its various interdisciplinary applications *Beyond Pseudo-Rotations in Pseudo-Euclidean Spaces*

Abraham Ungar, 2018-01-10 *Beyond Pseudo Rotations in Pseudo Euclidean Spaces* presents for the first time a unified study of the Lorentz transformation group $SO(m, n)$ of signature (m, n) which is fully analogous to the Lorentz group $SO(1, 3)$ of Einstein's special theory of relativity. It is based on a novel parametric realization of pseudo rotations by a vector-like parameter with two orientation parameters. The book is of interest to specialized researchers in the areas of algebra, geometry, and mathematical physics, containing new results that suggest further exploration in these areas. Introduces the study of generalized gyrogroups and gyrovector spaces. Develops new algebraic structures: bi gyrogroups and bi gyrovector spaces. Helps readers to surmount boundaries between algebra, geometry, and physics. Assists readers to parametrize and describe the full set of generalized Lorentz transformations in a geometric way. Generalizes approaches from gyrogroups and gyrovector spaces to bi gyrogroups and bi gyrovector spaces with geometric entanglement. **Progress in Physics, vol. 1/2012**

Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, *The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics* **Mathematics Without Boundaries**

Themistocles M. Rassias, Panos M. Pardalos, 2014-09-17 The contributions in this volume have been written by eminent scientists from the international mathematical community and present significant advances in several theories, methods, and problems of Mathematical Analysis, Discrete Mathematics, Geometry, and their Applications. The chapters focus on both old and recent developments in Functional Analysis, Harmonic Analysis, Complex Analysis, Operator Theory, Combinatorics, Functional Equations, Differential Equations, as well as a variety of Applications. The book also contains some review works which could prove particularly useful for a broader audience of readers in Mathematical Sciences and especially to graduate students looking for the latest information. *Scientific Legacy Of Professor Zbigniew Oziewicz: Selected Papers From The International Conference "Applied Category Theory Graph-operad-logic"*

Hilda Maria Colin Garcia, Jose De Jesus Cruz Guzman, Louis H Kauffman, Hanna Makaruk, 2023-09-27 Dedicated to the memory of the late Professor Zbigniew Oziewicz from Universidad Nacional Autónoma de México, the book consists of papers on a wide variety of topics related to the work of Professor Oziewicz which were presented at the special conference on Graph Operads Logic (GOL 2021) selected through peer review to promote his scientific legacy. Professor Oziewicz was a great enthusiast and supporter of category theory and its applications in physics as well as in various areas of mathematics: topology, noncommutative geometry, etc. In particular, he made significant contributions to the theory of Frobenius algebras which now are becoming more important due to their connection with topological quantum field theories that are used in mathematical physics and in quantum topology. Professor Oziewicz was a great and very generous teacher who immersed his students in the beautiful ideas of category theory as well

as mathematical physics and computation It was his idea to start a series of conferences under the title Graphs Operads Logic most of them held in Mexico with some of them in the USA which were a great platform to discuss various ideas connected with category theory and its various applications and to make friends with other scientists Despite his passing the GOL 2021 conference is included in this series to pay tribute to his many contributions to diverse areas of science The book is laid out in twelve main topics where we can find relevant works from distinguished experts **Social Networks Analysis and Mining** Aijun An,Alfredo Cuzzocrea,Hongxin Hu,2026-03-07 This LNCS conference 3 volume set constitutes the proceedings of the 17th International Conference on Social Networks Analysis and Mining ASONAM 2025 in Niagara Falls ON Canada during August 25 28 2025 The 32 full papers together with 33 short papers included in this volume were carefully reviewed and selected from 134 submissions The remaining 44 papers included in these proceedings are from the following tracks and workshops the Multidisciplinary Track the Industrial Track the PhD Track FAB 2025 and FOSINT SI 2025 The conference covers a wide spectrum of research contributions to the foundations and applications of social networks

Problems and Recent Methods in Operator Theory Fernanda Botelho,Raena King,T. S. S. R. K. Rao,2017-04-18 This volume contains the proceedings of the Workshop on Problems and Recent Methods in Operator Theory held at the University of Memphis Memphis TN from October 15 16 2015 and the AMS Special Session on Advances in Operator Theory and Applications in Memory of James Jamison held at the University of Memphis Memphis TN from October 17 18 2015 Operator theory is at the root of several branches of mathematics and offers a broad range of challenging and interesting research problems It also provides powerful tools for the development of other areas of science including quantum theory physics and mechanics Isometries have applications in solid state physics Hermitian operators play an integral role in quantum mechanics very much due to their nice spectral properties These powerful connections demonstrate the impact of operator theory in various branches of science The articles in this volume address recent problems and research advances in operator theory Highlighted topics include spectral structural and geometric properties of special types of operators on Banach spaces with emphasis on isometries weighted composition operators multi circular projections on function spaces as well as vector valued function spaces and spaces of analytic functions This volume gives a succinct overview of state of the art techniques from operator theory as well as applications to classical problems and long standing open questions

Analytic Hyperbolic Geometry and Albert Einstein's Special Theory of Relativity Abraham A. Ungar,2008 This book presents a powerful way to study Einstein s special theory of relativity and its underlying hyperbolic geometry in which analogies with classical results form the right tool It introduces the notion of vectors into analytic hyperbolic geometry where they are called gyrovectors Newtonian velocity addition is the common vector addition which is both commutative and associative The resulting vector spaces in turn form the algebraic setting for the standard model of Euclidean geometry In full analogy Einsteinian velocity addition is a gyrovector addition which is both gyrocommutative and gyroassociative The

resulting gyrovector spaces in turn form the algebraic setting for the Beltrami Klein ball model of the hyperbolic geometry of Bolyai and Lobachevsky Similarly M bius addition gives rise to gyrovector spaces that form the algebraic setting for the Poincar ball model of hyperbolic geometry In full analogy with classical results the book presents a novel relativistic interpretation of stellar aberration in terms of relativistic gyrotrigonometry and gyrovector addition Furthermore the book presents for the first time the relativistic center of mass of an isolated system of noninteracting particles that coincided at some initial time t_0 The novel relativistic resultant mass of the system concentrated at the relativistic center of mass dictates the validity of the dark matter and the dark energy that were introduced by cosmologists as ad hoc postulates to explain cosmological observations about missing gravitational force and late time cosmic accelerated expansion The discovery of the relativistic center of mass in this book thus demonstrates once again the usefulness of the study of Einstein's special theory of relativity in terms of its underlying analytic hyperbolic geometry

Mathematics Without Boundaries Panos M. Pardalos, Themistocles M. Rassias, 2014-09-16 This volume consists of chapters written by eminent scientists and engineers from the international community and present significant advances in several theories methods and applications of an interdisciplinary research These contributions focus on both old and recent developments of Global Optimization Theory Convex Analysis Calculus of Variations Discrete Mathematics and Geometry as well as several applications to a large variety of concrete problems including applications of computers to the study of smoothness and analyticity of functions applications to epidemiological diffusion networks mathematical models of elastic and piezoelectric fields optimal algorithms stability of neutral type vector functional differential equations sampling and rational interpolation for non band limited signals recurrent neural network for convex optimization problems and experimental design The book also contains some review works which could prove particularly useful for a broader audience of readers in Mathematical and Engineering subjects and especially to graduate students who search for the latest information *Mathematical Reviews*, 2006 **CMUC**, 2009

Progress in Physics, 2012 **A Gyrovector Space Approach to Hyperbolic Geometry** Abraham Ungar, 2022-06-01

The mere mention of hyperbolic geometry is enough to strike fear in the heart of the undergraduate mathematics and physics student Some regard themselves as excluded from the profound insights of hyperbolic geometry so that this enormous portion of human achievement is a closed door to them The mission of this book is to open that door by making the hyperbolic geometry of Bolyai and Lobachevsky as well as the special relativity theory of Einstein that it regulates accessible to a wider audience in terms of novel analogies that the modern and unknown share with the classical and familiar These novel analogies that this book captures stem from Thomas gyration which is the mathematical abstraction of the relativistic effect known as Thomas precession Remarkably the mere introduction of Thomas gyration turns Euclidean geometry into hyperbolic geometry and reveals mystique analogies that the two geometries share Accordingly Thomas gyration gives rise to the prefix gyro that is extensively used in the gyrolanguage of this book giving rise to terms like gyrocommutative and

gyroassociative binary operations in gyrogroups and gyrovectors in gyrovector spaces Of particular importance is the introduction of gyrovectors into hyperbolic geometry where they are equivalence classes that add according to the gyroparallelogram law in full analogy with vectors which are equivalence classes that add according to the parallelogram law A gyroparallelogram in turn is a gyroquadrilateral the two gyrodiagonals of which intersect at their gyromidpoints in full analogy with a parallelogram which is a quadrilateral the two diagonals of which intersect at their midpoints Table of Contents Gyrogroups Gyrocommutative Gyrogroups Gyrovector Spaces Gyrotrigonometry American Book Publishing Record ,2005 *Topological Methods in Nonlinear Analysis* ,1994 *A Course in Mathematical Analysis: pt.2. Differential equations.* [c1917 Edouard Goursat,1916 **Linear and Complex Analysis Problem Book 3** Victor P. Havin,Nikolai K. Nikolski,1994-04-28 The 2 volume book is an updated reorganized and considerably enlarged version of the previous edition of the Research Problem Book in Analysis LNM 1043 a collection familiar to many analysts that has sparked off much research This new edition created in a joint effort by a large team of analysts is like its predecessor a collection of unsolved problems of modern analysis designed as informally written mini articles each containing not only a statement of a problem but also historical and methodological comments motivation conjectures and discussion of possible connections of plausible approaches as well as a list of references There are now 342 of these mini articles almost twice as many as in the previous edition despite the fact that a good deal of them have been solved *Bulletin* Ball State University,1970

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