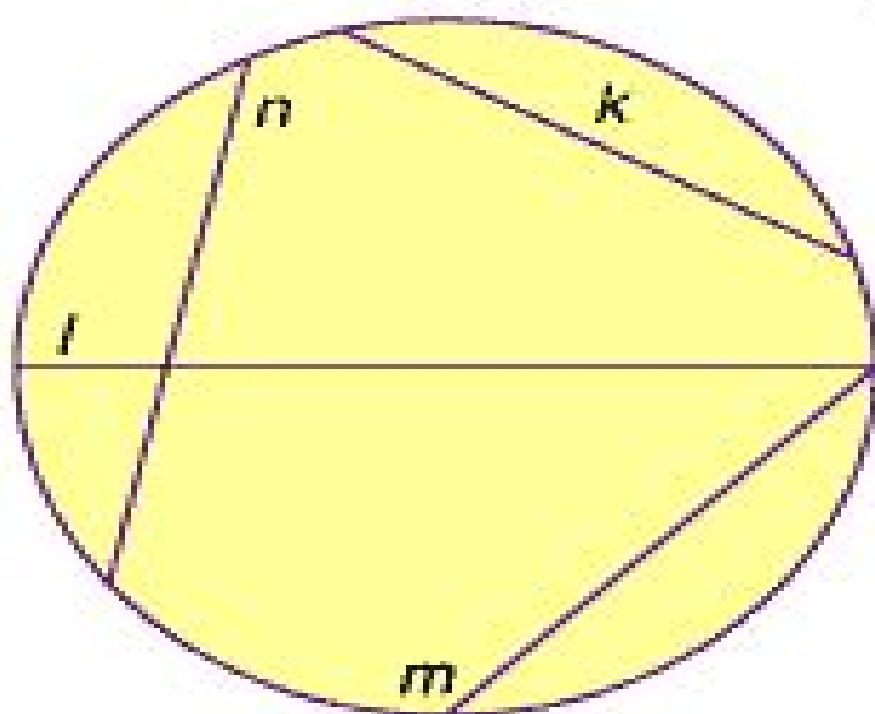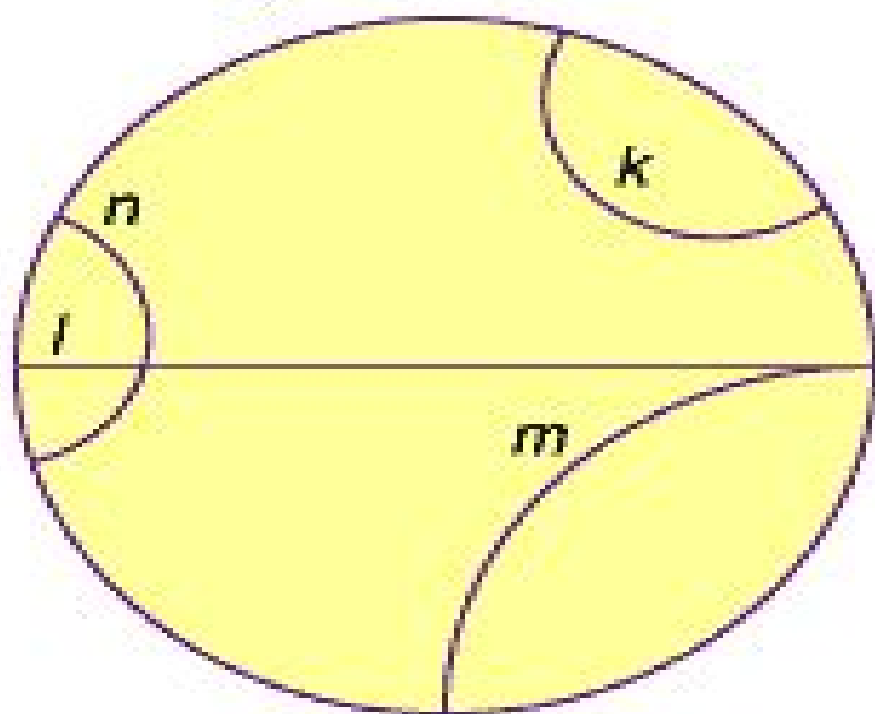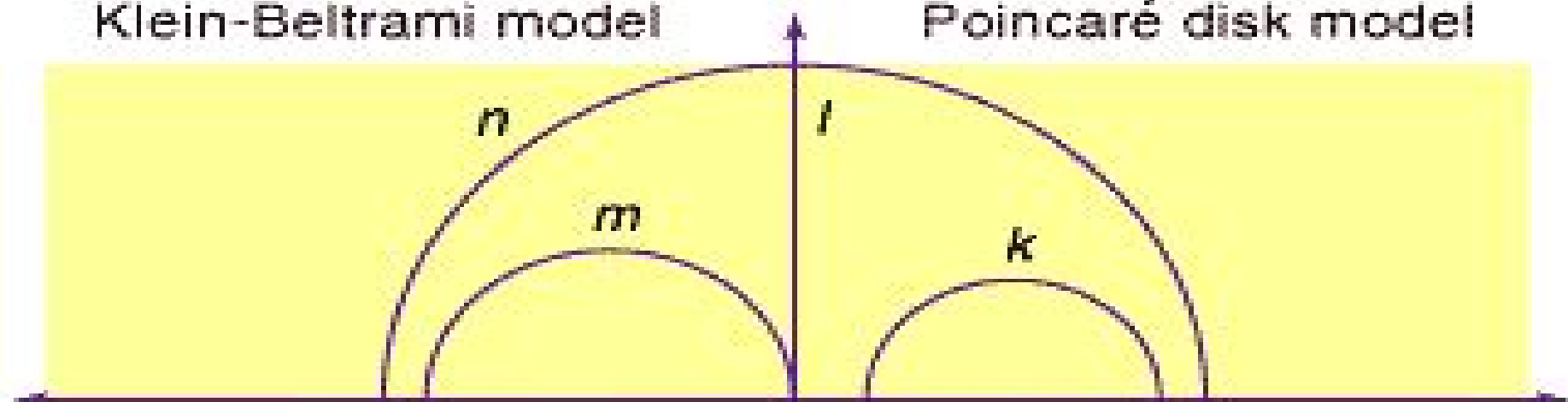# Models of hyperbolic geometry

Klein-Beltrami model

Poincaré disk model

Poincaré upper half-plane model

[Sources Of Hyperbolic Geometry](#)

Daina Taimina

Sources Of Hyperbolic Geometry:

   Sources of Hyperbolic Geometry John Stillwell,1996 This book presents for the first time in English the papers of Beltrami Klein and Poincare that brought hyperbolic geometry into the mainstream of mathematics A recognition of Beltrami comparable to that given the pioneering works of Bolyai and Lobachevsky seems long overdue not only because Beltrami rescued hyperbolic geometry from oblivion by proving it to be logically consistent but because he gave it a concrete meaning a model that made hyperbolic geometry part of ordinary mathematics The models subsequently discovered by Klein and Poincare brought hyperbolic geometry even further down to earth and paved the way for the current explosion of activity in low dimensional geometry and topology By placing the works of these three mathematicians side by side and providing commentaries this book gives the student historian or professional geometer a bird s eye view of one of the great episodes in mathematics The unified setting and historical context reveal the insights of Beltrami Klein and Poincare in their full brilliance   Sources of Hyperbolic Geometry John Stillwell,1996   *Sources of Hyperbolic Geometry* John Stillwell,1996

   Foundations of Hyperbolic Manifolds John G. Ratcliffe,2019-10-23 This heavily class tested book is an exposition of the theoretical foundations of hyperbolic manifolds It is a both a textbook and a reference A basic knowledge of algebra and topology at the first year graduate level of an American university is assumed The first part is concerned with hyperbolic geometry and discrete groups The second part is devoted to the theory of hyperbolic manifolds The third part integrates the first two parts in a development of the theory of hyperbolic orbifolds Each chapter contains exercises and a section of historical remarks A solutions manual is available separately   **Euclidean, Non-Euclidean, and Transformational Geometry** Shlomo Libeskind,Isa S. Jubran,2024-10-22 This undergraduate textbook provides a comprehensive treatment of Euclidean and transformational geometries supplemented by substantial discussions of topics from various non Euclidean and less commonly taught geometries making it ideal for both mathematics majors and pre service teachers Emphasis is placed on developing students deductive reasoning skills as they are guided through proofs constructions and solutions to problems The text frequently emphasizes strategies and heuristics of problem solving including constructing proofs Where to begin How to proceed Which approach is more promising Are there multiple solutions proofs etc This approach aims not only to enable students to successfully solve unfamiliar problems on their own but also to impart a lasting appreciation for mathematics The text first explores at a higher level and in much greater depth topics that are normally taught in high school geometry courses definitions and axioms congruence circles and related concepts area and the Pythagorean theorem similarity isometries and size transformations and composition of transformations Constructions and the use of transformations to carry out constructions are emphasized The text then introduces more advanced topics dealing with non Euclidean and less commonly taught topics such as inversive hyperbolic elliptic taxicab fractal and solid geometries By examining what happens when one or more of the building blocks of Euclidean geometry are altered students will gain a

deeper understanding of and appreciation for Euclidean concepts To accommodate students with different levels of experience in the subject the basic definitions and axioms that form the foundation of Euclidean geometry are covered in Chapter 1 Problem sets are provided after every section in each chapter and include nonroutine problems that students will enjoy exploring While not necessarily required the appropriate use of freely available dynamic geometry software and other specialized software referenced in the text is strongly encouraged this is especially important for visual learners and for forming conjectures and testing hypotheses   Foundations of Hyperbolic Manifolds John Ratcliffe,2006-11-25 This heavily class tested book is an exposition of the theoretical foundations of hyperbolic manifolds It is a both a textbook and a reference A basic knowledge of algebra and topology at the first year graduate level of an American university is assumed The first part is concerned with hyperbolic geometry and discrete groups The second part is devoted to the theory of hyperbolic manifolds The third part integrates the first two parts in a development of the theory of hyperbolic orbifolds Each chapter contains exercises and a section of historical remarks A solutions manual is available separately   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

Non-Euclidean Geometries András Prékopa,Emil Molnár,2006-06-03 From nothing I have created a new different world wrote J nos Bolyai to his father Wolgang Bolyai on November 3 1823 to let him know his discovery of non Euclidean geometry as we call it today The results of Bolyai and the co discoverer the Russian Lobachevskii changed the course of mathematics opened the way for modern physical theories of the twentieth century and had an impact on the history of human culture The papers in this volume which commemorates the 200th anniversary of the birth of J nos Bolyai were written by leading scientists of non Euclidean geometry its history and its applications Some of the papers present new discoveries about the life and works of J nos Bolyai and the history of non Euclidean geometry others deal with geometrical axiomatics polyhedra fractals hyperbolic Riemannian and discrete geometry tilings visualization and applications in physics

A New Perspective on Relativity Bernard H. Lavenda,2012 Starting off from noneuclidean geometries apart from the

method of Einstein s equations this book derives and describes the phenomena of gravitation and diffraction A historical account is presented exposing the missing link in Einstein s construction of the theory of general relativity the uniformly rotating disc together with his failure to realize that the Beltrami metric of hyperbolic geometry with constant curvature describes exactly the uniform acceleration observed This book also explores these questions How does time bend Why should gravity propagate at the speed of light How does the expansion function of the universe relate to the absolute constant of the noneuclidean geometries Why was the Sagnac effect ignored Can Maxwell s equations accommodate mass Is there an inertia due solely to polarization Can objects expand in elliptic geometry like they contract in hyperbolic geometry **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 **Crocheting Adventures with Hyperbolic Planes** Daina Taimina,2018-02-19 Winner Euler Book Prize awarded by the Mathematical Association of America With over 200 full color photographs this non traditional tactile introduction to non Euclidean geometries also covers early development of geometry and connections between geometry art nature and sciences For the crafter or would be crafter there are detailed instructions for how to crochet various geometric models and how to use them in explorations New to the 2nd Edition Daina Taimina discusses her own adventures with the hyperbolic planes as well as the experiences of some of her readers Includes recent applications of hyperbolic geometry such as medicine architecture fashion quantum computing **Conceptual Change and the Philosophy of Science** David J. Stump,2015-05-15 In this book David Stump traces alternative conceptions of the a priori in the philosophy of science and defends a unique position in the current debates over conceptual change and the constitutive elements in science Stump emphasizes the unique epistemological status of the constitutive elements of scientific theories constitutive elements being the necessary preconditions that must be assumed in order to conduct a particular scientific inquiry These constitutive elements such as logic mathematics and even some fundamental laws of nature were once taken to be a priori knowledge but can change thus leading to a dynamic or relative a priori Stump critically examines developments in thinking about constitutive elements in science as a priori knowledge from Kant s fixed and absolute a priori to Quine s holistic empiricism By examining the relationship between conceptual change and the epistemological status of constitutive elements in science Stump puts forward an argument that scientific revolutions can be explained and relativism can be avoided without resorting to universals or absolutes *Fundamentals of Hyperbolic Geometry* Richard Douglas Canary,Albert Marden,D. B. A. Epstein,2014-05-14 Reissued articles from two classic sources on hyperbolic manifolds with new sections describing recent work **Menelaus' ›Spherics‹** Roshdi Rashed,Athanase Papadopoulos,2017-10-23 Despite its importance in the history of Ancient science Menelaus Spherics is still by and large unknown This treatise which lies at the foundation of spherical geometry is lost in Greek but has been preserved in its Arabic

versions The reader will find here for the first time edited and translated into English the essentials of this tradition namely a fragment of an early Arabic translation and the first Arabic redaction of the Spherics composed by al M h n al Haraw together with a historical and mathematical study of Menelaus treatise With this book a new and important part of the Greek and Arabic legacy to the history of mathematics comes to light This book will be an indispensable acquisition for any reader interested in the history of Ancient geometry and science and more generally in Greek and Arabic science and culture

Macromolecules in Solution and Brownian Relativity Stefano Antonio Mezzasalma,2008-07-22 Macromolecules in Solution and Brownian Relativity illustrates the recent picture of statistical physics of polymers and polymer solutions that emerges from some paradigms of contemporary science joint together Among its principal aims are discussing the consequences of a novel self diffusion theory which benefits from an extension towards relativistic like principles and the generalization of usual concepts met in polymer science in terms of geometry alone The monograph gives the whole fundamentals necessary to handle the view proposed which is set in the final chapters All the formers see about to provide the reader with a comprehensive treatation of the necessary fundamentals of classical relativistic quantum and statistical mechanics Among the most important mechanical theories ever developed a chapter on the Brownian movement and another on macromolecules prepare the ground that is specific to face universality and scaling behaviors in polymer solutions The scope of the book is therefore two fold On the one hand it wishes to involve the readers and scholars into a new research on polymer physics and chemistry On the other to get close chemical physicists and physical chemists to disciplines which traditionally are far from their direct fields of interest Cross disciplinarity Novelty Potentiality *Contemporary Trends in Nonlinear Geometric Control Theory and Its Applications* A. Anzaldo-Meneses,2002 Concerns contemporary trends in nonlinear geometric control theory and its applications *Mathematical Masterpieces* Art Knoebel,Reinhard Laubenbacher,Jerry Lodder,David Pengelley,2007-10-16 In introducing his essays on the study and understanding of nature and e lution biologist Stephen J Gould writes W e acquire a surprising source of rich and apparently limitless novelty from the primary documents of great thinkers throughout our history But why should any nuggets or even akes be left for int lectual miners in such terrain Hasn t the Origin of Species been read untold millions of times Hasn t every paragraph been subjected to overt scholarly scrutiny and exegesis Letmeshareasecretrootedingeneralhumanfoibles Veryfew people including authors willing to commit to paper ever really read primary sources certainly not in necessary depth and completion and often not at all I can attest that all major documents of science remain cho full of distinctive and illuminating novelty if only people will study them in full and in the original editions Why would anyone not yearn to read these works not hunger for the opportunity 99 p 6f It is in the spirit of Gould s insights on an approach to science based on p mary texts that we o er the present book of annotated mathematical sources from which our undergraduate students have been learning for more than a decade Although teaching and learning with primary historical sources require a commitment of study the investment yields

the rewards of a deeper understanding of the subject an appreciation of its details and a glimpse into the direction research has taken Our students read sequences of primary sources   *Yearning for the Impossible* John Stillwell,2006-05-23 This book explores the history of mathematics from the perspective of the creative tension between common sense and the impossible as the author follows the discovery or invention of new concepts that have marked mathematical progress Irrational and Imaginary Numbers The Fourth Dimension Curved Space Infinity and others The author puts t   *The History of Mathematics: A Source-Based Approach, Volume 2* June Barrow-Green,Jeremy Gray,Robin Wilson,2022-12-23 The History of Mathematics A Source Based Approach is a comprehensive history of the development of mathematics This the second volume of a two volume set takes the reader from the invention of the calculus to the beginning of the twentieth century The initial discoverers of calculus are given thorough investigation and special attention is also paid to Newton s Principia The eighteenth century is presented as primarily a period of the development of calculus particularly in differential equations and applications of mathematics Mathematics blossomed in the nineteenth century and the book explores progress in geometry analysis foundations algebra and applied mathematics especially celestial mechanics The approach throughout is markedly historiographic How do we know what we know How do we read the original documents What are the institutions supporting mathematics Who are the people of mathematics The reader learns not only the history of mathematics but also how to think like a historian The two volume set was designed as a textbook for the authors acclaimed year long course at the Open University It is in addition to being an innovative and insightful textbook an invaluable resource for students and scholars of the history of mathematics The authors each among the most distinguished mathematical historians in the world have produced over fifty books and earned scholarly and expository prizes from the major mathematical societies of the English speaking world   **Mathematical Expeditions** Reinhard Laubenbacher,David Pengelley,2013-12-01 This book contains the stories of five mathematical journeys into new realms told through the writings of the explorers themselves Some were guided by mere curiosity and the thrill of adventure while others had more practical motives In each case the outcome was a vast expansion of the known mathematical world and the realization that still greater vistas remained to be explored The authors tell these stories by guiding the reader through the very words of the mathematicians at the heart of these events and thereby provide insight into the art of approaching mathematical problems The book can be used in a variety of ways The five chapters are completely independent each with varying levels of mathematical sophistication The book will be enticing to students to instructors and to the intellectually curious reader By working through some of the original sources and supplemental exercises which discuss and solve or attempt to solve a great problem this book helps the reader discover the roots of modern problems ideas and concepts even whole subjects Students will also see the obstacles that earlier thinkers had to clear in order to make their respective contributions to five central themes in the evolution of mathematics

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