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### Complex Hyperbolic Geometry Oxford Mathematical

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W.M. Goldman; Complex Hyperbolic Geometry, Oxford Mathematical Monographs. Ox-ford University Press (1999). J.G. Ratclie; Foundations of Hyperbolic Manifolds, second ...

### Introduction to Hyperbolic Geometry

Abstract: In this paper we study discreteness of complex hyperbolic triangle groups of type  $(2, 3, 4)$ , i.e., groups of isometries of the complex hyperbolic plane generated by three complex reflections of orders in complex geodesics with pairwise distances  $\frac{\pi}{2}$ . For fixed  $n$ , the parameter space of such groups is of real dimension one. We determine intervals in this parameter space that correspond to discrete and to non-discrete triangle groups.

### AMS :: Conformal Geometry and Dynamics of the American ...

We study relations between special elliptic isometries in the complex hyperbolic plane. Relations of lengths 2, 3, and 4 are fully classified. Some relative  $\mathbb{S}^1$ -character varieties of the quadruply punctured sphere are described and applied to the study of length 5 relations.

### Special Elliptic Isometries, Relative $\mathbb{S}^1$ (2, 1, ...

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' A semi-explicit fundamental domain for a Picard modular group in complex hyperbolic space ', Contemp. Math. 238 (2005), 211 – 226. [6] Franciscs , G. and Lax , P. , 'An explicit fundamental domain for a Picard modular group in complex hyperbolic space', Preprint, 2005 , pp. 1–25, arXiv:math/0509708.

### GENERATORS OF THE EISENSTEIN-PICARD MODULAR GROUP ...

Review of Complex Hyperbolic Geometry by William M. Goldman, Oxford University Press 1999. Proceedings of the Edinburgh Mathematical Society 43 (2000) 443-445. A shorter version of this review is published in Featured Reviews, issue 2000g in Mathematical Reviews.

### John R. Parker's Home Page - Department of Mathematical ...

In complex hyperbolic geometry, the deformation of certain triangle groups of isometries of the hyperbolic plane  $HR^2$  into the isometry group of the complex hyperbolic plane  $HC^2$  has profound and fascinating results. There are two ways to represent complex triangle groups, the generators can be anti-holomorphic isometries or complex reflections.

### On a family of triangle groups in complex hyperbolic geometry

A complex hyperbolic triangle group is the group of complex hyperbolic isometries generated by complex involutions fixing three complex lines in complex hyperbolic space. Such a group is called equilateral if there is an isometry of order three that cyclically permutes the three complex lines. We co ..."

### Complex hyperbolic geometry, Oxford Mathematical ...

Project Euclid - mathematics and statistics online. A new nonarithmetic lattice in  $S^1 \times S^1 \times S^1$  Deraux, Martin, Algebraic & Geometric Topology, 2020 Note on non-discrete complex hyperbolic triangle groups of type  $(n, n, \infty; k)$  Il Kamiya, Shigeyasu, Proceedings of the Japan Academy, Series A, Mathematical Sciences, 2017; Commensurators of Cusped Hyperbolic Manifolds Goodman, Oliver, Heard ...

### Deraux , Parker , Paupert : New Nonarithmetic Complex ...

Minimal Lagrangian submanifolds in the complex hyperbolic space Castro, Ildefonso, Montelegre, Cristina R., and Urbano, Francisco, Illinois Journal of Mathematics, 2002. Classification of a family of Hamiltonian-stationary Lagrangian submanifolds in  $CS^2$  Chen, Bang-Yen, Proceedings of the Japan Academy, Series A, Mathematical Sciences, 2006

### Journal of the Mathematical Society of Japan - Project Euclid

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A Kleinian group is a discrete subgroup of the isometry group of hyperbolic 3-space, which is also regarded as a subgroup of Möbius transformations in the complex plane. The present book is a comprehensive guide to theories of Kleinian groups from the viewpoints of hyperbolic geometry and complex analysis.

### Hyperbolic Manifolds and Kleinian Groups (Oxford ...

Complex hyperbolic space is its "complexification", and is a homogeneous geometry of variable negative curvature. In both cases, it is very interesting to study compact manifolds with metrics locally isometric to these hyperbolic spaces.

### Math 595, Real and Complex Hyperbolic Geometry

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### Hyperbolic Manifolds And Kleinian Groups Oxford ...

Xie, BaoHua Wang, JieYan and Jiang, YuePing 2015. Generators of the Gauss-Picard modular group in three complex dimensions. Pacific Journal of Mathematics, Vol. 273 ...

### GENERATORS OF THE EISENSTEIN-PICARD MODULAR GROUP IN THREE ...

In hyperbolic geometry, the shortest path, or "geodesic," between two points is the path that travels through the fewest possible fishes to get from one point to the other. Such a path, it turns out, is always a semicircle perpendicular to the boundary of the disk; the semicircles that go through the fishes' spines are examples.

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