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particularly rich field, drawing on  
Riemannian geometry, complex  
analysis, symplectic and contact  
geometry, Lie group theory, and  
harmonic analysis. The boundary in  
complex hyperbolic spaces, known  
as spherical CR or Heisenberg  
geometry, reflects this  
richness. Complex Hyperbolic  
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comprehensive treatment of the  
geometry of complex hyperbolic  
space, a rich area of research with  
numerous connections to other  
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closed surface of genus at least 2  
are in one-to-one correspondence  
with hyperbolic metrics, so that  
there is a single space, Teichmüller  
space, parametrising all possible  
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on a given surface (up to isotopy).  
We will explore how complex and  
hyperbolic geometry interact in  
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hyperbolic geometry is a  
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several areas of research including

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 Hyperbolic Geometry - William Mark  
 Goldman ... Abstract: In this paper  
 we study discreteness of complex  
 hyperbolic triangle groups of type  $(n, n, n)$ ,  
 i.e., groups of isometries of the  
 complex hyperbolic plane  
 generated by three complex  
 reflections of orders  $n$  in complex  
 geodesics with pairwise distances  $\frac{\pi}{n}$ .  
 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 ... Let  $\Gamma$  be a discrete group of isometries  
 acting on the complex hyperbolic  $n$ -  
 space  $\mathbb{H}^n_{\mathbb{C}}$

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$\mathbb{C}$ . In this note, we prove that if

$\mathbb{H}^n_{\mathbb{C}}$  is convex-

cocompact, torsion-free, and the

critical exponent  $\delta$

( $\mathbb{H}^n_{\mathbb{C}}$ ) is strictly lesser

than 2, then the complex manifold

$\mathbb{H}^n_{\mathbb{C}}$

$\mathbb{C}^n$  is Stein. A Note

on Complex-Hyperbolic Kleinian

Groups | SpringerLink A triangle

immersed in a saddle-shape plane

(a hyperbolic paraboloid), along

with two diverging ultra-parallel

lines In mathematics, hyperbolic

geometry (also called

Lobachevskian geometry or Bolyai –

Lobachevskian geometry) is a non-

Euclidean geometry. The parallel

postulate of Euclidean geometry is

replaced with: Hyperbolic geometry

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Kleinian group is a discrete  
subgroup of the isometry group of  
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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  
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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. From Hyperbolic

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