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## **Introduction to complex geometry - Nanjing University**

t. e. In mathematics, complex geometry  
is the study of complex manifolds,  
complex algebraic varieties, and

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functions of several complex variables. Application of transcendental methods to algebraic geometry falls in this category, together with more geometric aspects of complex analysis .

### **Complex geometry - Wikipedia**

complex geometry. We define the exponential function by its power series

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and the cosine and sine functions by way of the exponential function. We can and therefore do discuss logarithms and trigonometry in this chapter as well. Chapter 3 focuses on geometric aspects of complex numbers. We analyze the

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**Complex Geometry | SpringerLink**

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A complex  $n$ -manifold is a real  $2n$ -manifold  $X$  with charts  $(U; \varphi: U \rightarrow \mathbb{C}^n)$  so that the transition maps are holomorphic (complex differentiable and thus complex analytic). This formal definition does not help understand what we are talking about. We will later go through the proof that complex differentiable functions are analytic.

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## **MATH 250B: COMPLEX ALGEBRAIC GEOMETRY Contents**

Huybrechts provides a systematic introduction to complex geometry, with a lot of details and comments, excellent for the beginner. However if you are interested in reaching as fast as possible topics such as Calabi-Yau manifolds,

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Kahler-Einstein metrics, K3 surfaces,  
hyperkahler manifolds, G2-metrics etc.,

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Complex Geometry: An Introduction.

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New York: Springer-Verlag, ISBN  
978-0-387-96188-0, MR 0815922



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## **Kodaira-Spencer map - Wikipedia**

An Introduction to Complex Analysis and Geometry provides the reader with a deep appreciation of complex analysis and how this subject fits into mathematics. The book developed from courses given in the Campus Honors Program at the University of Illinois Urbana-Champaign. These courses

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aimed to share with students the way  
many mathematics and

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**Complex geometry : an introduction (eBook, 2005) [WorldCat ...**

We will start by introducing the complex

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plane, along with the algebra and geometry of complex numbers, and then we will make our way via differentiation, integration, complex dynamics, power series representation and Laurent series into territories at the edge of what is known today.

## **Algebra and Geometry in the**

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## **Complex Plane - Introduction ...**

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