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## **What is a manifold?**

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**Canonical**

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**manifolds I - Sean**

**Keel** Geometry and

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Yau Manifolds by

Philip Candelas FRS

Equivariant geometry

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Halpern-Leistner

Calabi-Yau Manifold

Crystal Calabi-yau

manifold



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Steve Nadis -

String Theory and the  
Universes's Hidden

Dimensions

**A Grand**

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**Look at Reality in a**

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**Diamox - Calabi-**

**Yau Manifold**

Kyoto  
Univ. "Moduli of  
Calabi-Yau manifolds  
and mirror symmetry"

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Calabi Yau

Atsushi Kanazawa

**Calabi Yau  
Manifolds And  
Related  
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In algebraic geometry, a Calabi–Yau manifold, also known as a Calabi–Yau space, is a particular type of manifold which has properties, such as Ricci flatness, yielding applications in theoretical physics.

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## Calabi Yau

Particularly in And

superstring theory,  
the extra dimensions  
of spacetime are

sometimes  
conjectured to take  
the form of a  
6-dimensional

Calabi–Yau manifold,  
which led to the idea  
of mirror symmetry.

Their name was  
coined by Candelas et  
al. (1985), after

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Calabi Yau

Eugenio Calabi (1954,  
1957) who ...

**Calabi–Yau manifold**

- **Wikipedia**

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**Calabi-Yau**

**Manifolds and**

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The second studies Calabi-Yau manifolds and mirror symmetry, using algebraic geometry. The final part describes compact hyperkahler manifolds, which have a geometric structure very closely related to Calabi-Yau manifolds. The book is an

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Calabi Yau

introduction to a very  
active field of  
research, on the  
boundary between  
mathematics and  
physics.

**Calabi-Yau**

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**"Lectures At ...**

Gross, Mark, Daniel

Huybrechts, and

Dominic Joyce. 2003.

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Calabi-Yau Manifolds  
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Geir Ellingsrud, Loren

Olson, Kristian A  
Ranestad, and Stein

A. Strømme.

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**Calabi-Yau And  
manifolds and  
related geometries -  
ORA - Oxford ...**

This book is an excellent introduction to current research in the geometry of Calabi-Yau manifolds, hyper-Kähler manifolds, exceptional holonomy and mirror symmetry.



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**Calabi-Yau And  
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'Calabi-Yau manifolds  
and related

geometries', by Mark  
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Huybrechts and

Dominic Joyce There

are many texts

concerning the

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aspects of mirror symmetry having to do with variations of Hodge structure and counting curves, but only difficult research articles about the more recent geometry of mirror symmetry having to do with D-branes, homological mirror symmetry and torus fibrations.

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## **Review of 'Calabi-Yau manifolds and related geometries'**

Moore (2007) has shown that Calabi-Yau manifolds with complex structure located at an attractor fixed point on the moduli space exhibit interesting arithmetic properties. Calabi-Yau Manifolds in Physics. Calabi-Yau

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Calabi Yau

manifolds admit Kähler metrics with vanishing Ricci curvatures. They are solutions of the Einstein field equation with no matter. The theory of motions of loops inside a Calabi-Yau manifold provide a model of a conformal field theory.

**Calabi-Yau manifold**

*Page 21/37*

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Calabi Yau

**- Scholarpedia**

One benefit of the Calabi-Yau manifolds was that the geometry of the folded dimensions gives rise to different types of observable particles in our universe. If the Calabi-Yau shape has three holes (or rather higher-dimensional analogs of holes), three families of

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Calabi Yau

particles will be  
predicted by the  
Standard Model of  
particle physics.

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**String Theory and  
Calabi-Yau  
Manifolds -**

**dummies** Jun

In particular, a Calabi-  
Yau (CY) manifold is  
a (compact) Ka"hler  
manifold with  
vanishing Ricci

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## Calabi Yau

curvature and so a vacuum solution of the Einstein equations.

They have a prominent role in superstring theory and have been a central focus in

both contemporary mathematics and mathematical physics.

### **Calabi-Yau**



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Calabi Yau

**Manifolds, Hermitian**

**Yang-Mills**

**Instantons and ...**

The second studies

Calabi-Yau manifolds

and mirror symmetry,

using algebraic

geometry. The final

part describes

compact hyperkahler

manifolds, which have

a geometric structure

very closely related to

Calabi-Yau manifolds.

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Manifolds And

**Calabi-Yau**

**Manifolds and**

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**| Mark Gross ...**

The goal was to introduce the students to some of the basic geometry of Calabi-Yau manifolds and lead into mirror symmetry.

**Calabi—Yau**

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**Manifolds and Mirror**

**Symmetry |**

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Calabi-Yau Manifolds

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Geometries Softcover

reprint of the original

1st ed. 2003 Edition

by Mark Gross

(Author), Daniel

Huybrechts (Author),

Dominic Joyce

(Author), 4.5 out of 5

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Calabi Yau

ISBN-13:

978-3540440598

**Calabi-Yau**

**Manifolds and  
Related Geometries:  
Gross, Mark ...**

Calabi-Yau manifold.

The coupling to the  
standard  $E_8$ -algebra-  
valued flux-loop  
operator, as well as  
an analogous  
 $E_8$ -invariant operator,

# Online Library Calabi Yau

is argued to be  
related to certain  
Yukawa couplings. A  
vacuum expectation  
value of the latter  
operator is shown to  
give masses to

## **Flux-lines through Calabi-Yau manifolds and related couplings**

As special classes of  
compact complex

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## Calabi Yau

manifolds, Calabi-Yaus and Fanos admit some features that make them easier to study than other classes. Calabi-Yaus satisfy a particularly strong PDE that  $\text{Ric} = 0$ , the Ricci tensor of a metric vanishes.

**How are Calabi-Yau manifolds and Fano manifolds related ...**

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## Calabi Yau

Yau's solution of the Calabi conjecture [22] produces a unique Calabi-Yau metric in each Kähler class on a compact Kähler manifold  $X$  with vanishing first Chern class. These metrics have local holonomy group contained in  $SU(n)$ . They are fundamental objects in geometry. Yau's

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Calabi Yau

original construction is  
based on solving a  
fully nonlinear  
complex

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**Collapsing of Calabi-  
Yau metrics and  
degeneration of ...**

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Norway, June 2001:



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Ellingsrud, Geir, And  
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Algebraic Geometry

Differential Geometry,

Calabi-Yau Theory,

and General Relativity

The Local Geometry

of the Moduli Space

of Calabi-Yau

Manifolds Mirror

Symmetry Dirichlet

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Constructive Calabi-

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Behind Mathematical

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Mirror Symmetry

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