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What is a manifold?

13 Calabi Yau Manifolds ~~Calabi-Yau Manifold 3D Stereogram of a Calabi-Yau Manifold~~ Hidden Dimensions: Exploring Hyperspace *Calabi-Yau Manifold*

David Morrison: Calabi-Yau manifolds, Mirror Symmetry, and F-theory - Part I

FilmCow Tutorials: How to Draw a Calabi-Yau Manifold ~~Brief history of Calabi-Yau manifold related to string theory~~ Birational Calabi-Yau manifolds have the same small quantum products - Mark McLean

David Morrison: Calabi-Yau manifolds, Mirror Symmetry, and F-theory - Part II **Canonical**

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~~coordinates for Calabi Yau manifolds I - Sean Keel Geometry and Arithmetic of Calabi-Yau Manifolds by Philip Candelas FRS Equivariant geometry and Calabi-Yau manifolds - Daniel Halpern-Leistner Calabi-Yau Manifold Crystal Calabi-yau manifold~~

Shing-Tung Yau \u0026amp; Steve Nadis - String Theory and the Universe's Hidden Dimensions **A Grand Tour of the Universe That Will Make You Look at Reality in a Completely Different Way** **Diamox - Calabi-Yau Manifold** Kyoto Univ. \"Moduli of Calabi-Yau manifolds and mirror symmetry\" Atsushi Kanazawa **Calabi Yau Manifolds And Related**

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. Particularly in 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 Eugenio Calabi (1954, 1957) who ...

Calabi–Yau manifold - Wikipedia

Calabi-Yau Manifolds and Related Geometries Lectures at a Summer School in Nordfjordeid, Norway, June 2001

Calabi-Yau Manifolds and Related Geometries | SpringerLink

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

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Calabi-Yau Manifolds and Related Geometries: "Lectures At ...

Gross, Mark, Daniel Huybrechts, and Dominic Joyce. 2003. Calabi-Yau Manifolds and Related Geometries. Edited by Geir Ellingsrud, Loren Olson, Kristian Ranestad, and Stein A. Strømme. Springer. Copy Chicago Style Tweet. Print. Access Document. Publisher copy: 10.1007/978-3-642-19004-9 ...

Calabi-Yau 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.

Calabi-Yau Manifolds and Related Geometries - Lectures at ...

Calabi-Yau Manifolds and Related Geometries: Lectures at a Summer School in Nordfjordeid, Norway, June 2001: Authors: Mark Gross, Daniel Huybrechts, Dominic Joyce: Editors: Geir Ellingsrud, Loren...

Calabi-Yau Manifolds and Related Geometries: Lectures at a ...

'Calabi-Yau manifolds and related geometries', by Mark Gross, Daniel Huybrechts and Dominic Joyce
There are many texts concerning the 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.

Review of 'Calabi-Yau manifolds and related geometries'

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

String Theory and Calabi-Yau Manifolds - dummies

In particular, a Calabi-Yau (CY) manifold is a (compact) Kähler manifold with vanishing Ricci 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 Manifolds, Hermitian Yang-Mills Instantons and ...

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

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Calabi-Yau Manifolds and Related Geometries | 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 Manifolds and Mirror Symmetry | SpringerLink

Calabi-Yau Manifolds and Related 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 stars 2 ratings ISBN-13: 978-3540440598

Calabi-Yau Manifolds and Related Geometries: Gross, Mark ...

Calabi-Yau manifold. The coupling to the standard E,-algebra-valued flux-loop operator, as well as an analogous E,-invariant operator, 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 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 ...

Yau's solution of the Calabi conjecture [22] produces a unique Calabi-Yau metric in each Kahler class

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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 original construction is based on solving a fully nonlinear complex

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

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