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Diamox - Calabi-Yau Manifold

Kyoto Univ. \ "Moduli of
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mirror symmetry\" Atsushi
Kanazawa **Calabi Yau
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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. 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

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(1954, 1957) who ... At A
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**Calabi-Yau manifold -
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Geometries is an introduction to a very active field of research, on the boundary between mathematics and physics.

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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:

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**Calabi-Yau manifolds and
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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 Manifolds and
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'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

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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 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 -

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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

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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 ...

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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

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Calabi-Yau manifold. The coupling to the standard E_6 -algebra-valued flux-loop operator, as well as an analogous E_6 -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

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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 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 original construction is based on solving a fully nonlinear complex

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