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General Theory of Relativity
12.1 - De Sitter and Anti-
de Sitter *de Sitter's*

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Questions of Cosmology:*

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Pondering the Imponderables

A Philosophical Tour of de
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Belot ~~Sean Carroll,~~

~~"Fluctuations in de Sitter~~

~~Space" FQXi conference 2014~~

~~in Vieques Spacetime~~

~~Continuum DOCUMENTARY The~~

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(original) **This thing is
-270°C and is EVERYWHERE**

General Theory of Relativity
12.6 - Geometry of the
Anti-de Sitter Space-Time
Penrose Inequality in Anti
de Sitter Space de Sitter
Space, Maulik Parikh |

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Lecture 1 of 1 Aspect of De Sitter Space (Lecture - 02)
by Dionysios Anninos ~~de Sitter~~ and anti de Sitter spacetimes Episode 2: Carlo Rovelli on Quantum Mechanics, Spacetime, and Reality **General Theory of**

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Relativity 12.3 - Metric of
the de Sitter Space-Time
General Theory of Relativity
12.2 - Geometry of the de
Sitter Space-Time ~~Notes On
De Sitter Space~~

de Sitter spacetime is the
maximally symmetric

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spacetime of constant positive curvature. It is a solution of the vacuum Einstein equations with a positive cosmological constant. It is directly relevant for observation, in two (as far as we know

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unrelated!) ways.

~~Lecture Notes on Classical
de Sitter Space~~

de Sitter space is the
subset $dS_4 = \{x^i; x^i = a^2 \sum_{j=1}^4 x_j^2 = 2M^2\}$
There is an isometric
copy H^4 of hyperbolic

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space with $\Lambda < 0$. The induced metric on hyperbolic space is Riemannian and on de Sitter space is Lorentzian. Thus de Sitter space is a space-time. It is a solution of Einstein's equations with positive

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cosmological constant = $3/a^2$
and no matter.

~~Notes on de Sitter space~~

In mathematical physics, n -dimensional de Sitter space is a maximally symmetric Lorentzian manifold with

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constant positive scalar curvature. It is the Lorentzian analogue of an n -sphere. The main application of de Sitter space is its use in general relativity, where it serves as one of the simplest mathematical

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models of the universe consistent with the observed accelerating expansion of the universe. More specifically, de Sitter space is the maximally symmetric vacuum solution of Einstein's field

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~~de Sitter space — Wikipedia~~
Notes on Euclidean de Sitter
space - NASA/ADS Note that
de Sitter space has an
initial and final conformal
boundary. (Although the
diagram also appears to have

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left and right boundaries,
these are not really
boundaries - at each value
of χ space is a sphere, so
those lines are just the
north and south poles of the
sphere S^1 .)

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~~Notes On De Sitter Space~~
can always "unwrap" the
hyperboloid by going to the
covering space. Note that in
 $1 + 1$ dimensions we can
always switch the meaning of
timelike and spacelike. Then
we obtain de Sitter space

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dS_2 , that has a closed space but no closed timelike curves. In general the topology of adS_n is $R^{n-1} \times S^1$ and the topology of dS_n is $S^{n-1} \times R$, so that it is only in two dimensions that de 4

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~~ANTI DE SITTER SPACE~~

Note that de Sitter space has an initial and final conformal boundary.

(Although the diagram also appears to have left and right boundaries, these are not really boundaries - at

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each value of α space is a sphere, so those lines are just the north and south poles of the sphere SD1.)
Vacuum As usual, there is no unique vacuum.

~~7 Thermodynamics of de~~

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~~Sitter space~~

~~hartmanhep.net~~

There are ways to cast de Sitter space with static coordinates (see de Sitter space), so unlike other FLRW models, de Sitter space can be thought of as a static

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solution to Einstein's equations even though the geodesics followed by observers necessarily diverge as expected from the expansion of physical spatial dimensions.

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~~de Sitter universe~~
~~Wikipedia~~

Acces PDF Notes On De Sitter
Space Created by real
editors, the category list
is frequently updated. Notes
On De Sitter Space de Sitter
spacetime is the maximally

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symmetric spacetime of constant positive curvature. It is a solution of the vacuum Einstein equations with a positive cosmological constant. It is

Page 5/29

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~~Notes On De Sitter Space~~
~~engineeringstudymaterial.net~~
de Sitter space has a number
of good properties. It has
been shown to be stable [1],
and to possess positive en-
ergy representations [2]
(see [3] for a review of

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further properties of anti-de Sitter space). Recently, anti-de Sitter space has appeared in a surprising new context. Maldacena [4] has conjectured that the large N limit of cer-

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~~arXiv:hep-th/9805087v1 14~~

~~May 1998~~

Just for completeness, note that Anti de Sitter space is the maximally symmetric solution to Einstein's equations with negative cosmological constant.

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Finally a quick note: de Sitter (Anti de Sitter) space has constant positive (negative) scalar curvature and hence is non-hyperbolic (hyperbolic).

~~General Relativity: What is~~

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~~de Sitter space? Why does it~~

~~...~~

It was proved by K.
Akutagawa [a1], Q.M. Cheng
[a2] and K.G. Ramanathan
that complete space-like
submanifolds with parallel
mean curvature vector in a

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de Sitter space $S_{-p}^{\wedge n+p}(c)$ are totally umbilical (cf. also Differential geometry) if 1) $H^2 \leq c$, when $n = 2$;

~~De Sitter space~~

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~~Encyclopedia of Mathematics~~

These lectures present an elementary discussion of some background material relevant to the problem of de Sitter quantum gravity. The first two lectures discuss the classical

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geometry of de Sitter space and properties of quantum field theory on de Sitter space, especially the temperature and entropy of de Sitter space. The final lecture contains a pedagogical discussion of

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the appearance of ...

~~[hep-th/0110007] Les Houches
Lectures on De Sitter Space
guide by on-line. This
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of the options to accompany~~

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holography 5657 Keeping the

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AdS/CFT correspondence in mind, we proceed to study the action for scalar fields in de Sitter space as a functional of boundary data. To extend this investigation to gravity, we display a family of solutions to three-

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dimensional (3D) gravity
with a positive

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holography~~

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AdS/CFT correspondence in

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mind, we proceed to study the action for scalar fields in de Sitter space as a functional of boundary data. To extend this investigation to gravity, we display a family of solutions to three-dimensional (3D) gravity

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with a positive Notes on de
Sitter space and holography

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actredbridgefreeschool.org~~

However, when de Sitter
entropy is computed in a
'stretched horizon' picture,

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then we argue that the correct euclidean topology is a solid torus. The solid torus shrinks and degenerates into a three-hemisphere as one goes from the ``stretched horizon'' to the horizon, giving the

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euclidean continuation of
the causal diamond.

~~Notes on Euclidean de Sitter
space — NASA/ADS~~

The isometry group of de
Sitter space is therefore
the Lorentz group $S O (4 ,$

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1). The embedding space coordinates are very useful for many calculations. In

~~(PDF) De Sitter Space and
Spatial Topology~~

In de Sitter space there is

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a non-zero probability to pair-produce charged black holes from the vacuum [7, 8, 9, 10, 11, 12, 13]. The two-dimensional FRW regions in the interior of each black hole are produced dynamically, and so black

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hole nucleation can be regarded as the dynamical compactification of two extra dimensions.

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