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conformal group as an asymptotic symmetry group, which is central to the dS /CFT correspondence.

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De Sitter space is defined as a pseudosphere (one-sheet hyperboloid) in the pseudoeuclidean space  $E_{4,1}$ , a 5-dim. analogue of  $M_{3,1}$ , given as a submanifold of points such that  $(x_1)^2 + (x_2)^2 + (x_3)^2 - (x_4)^2 = 1$

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$2 + (x^5)^2 = r^2$ , with  
fixed value of  $r$ - the  
curvature radius of D.S.S.  
Realization of...

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We construct a string theory in three-dimensional anti-de Sitter space-time that is independent of the boundary metric. It is a topologically twisted theory of quantum gravity. We study string theories with an

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asymptotic  $N = 2$   
superconformal symmetry and  
demonstrate that, when the  
world sheet coupling to the  
space-time boundary metric  
undergoes a  $U(1)$  R-symmetry  
twist, the space-time  
boundary ...

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Twisted string theory in  
anti-de Sitter space  
J.M. Maldacena and A.  
Strominger, "Statistical  
entropy of de Sitter space,"  
JHEP 9802 (1998) 014

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[arXiv:gr-qc/9801096]; F.L.  
Lin and Y.S. Wu, "Near-  
horizon Virasoro symmetry  
and the entropy of de Sitter  
space in any dimension,"  
Phys. Lett. B 453 (1999) 222  
[arXiv:hep-th/9901147].  
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Tall Tales from de Sitter  
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Abstract. We discuss  
properties of fuzzy de  
Sitter space defined by

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means of algebra of the de Sitter group  $(\text{SO}(1,4))$  in unitary irreducible representations. It was shown before that this fuzzy space has local frames with metrics that reduce, in the commutative

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limit, to the de Sitter  
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Fuzzy de Sitter space |  
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entanglement entropy for  
some quantum field theories  
on de Sitter space. We  
consider a superhorizon size  
spherical surface that  
divides the spatial slice  
into two regions, with the  
field theory in the standard



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vacuum state.

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Entanglement entropy in de  
Sitter space | SpringerLink  
Q. M. Cheng, "Hypersurfaces  
of a Lorentz space form"  
Arch. Math., 63 (1994) pp.

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271-281 [a4] S. Montiel, "An integral inequality for compact space-like hypersurfaces in a de Sitter space and application to the case of constant mean curvature" Indiana Univ. Math. J., 37 (1988) pp.

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De Sitter space -  
Encyclopedia of Mathematics  
QFT in Snyder-de Sitter  
space S. A. Franchino-  
Viñas<sup>1,2,a</sup>, S. Mignemi<sup>3,4,b</sup>

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Universität Jena, Max Wien  
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Asymptotic freedom for QFT  
in Snyder-de Sitter space  
In mathematical physics, n-  
dimensional de Sitter space

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is a maximally symmetric Lorentzian manifold with 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,

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where it serves as one of the simplest mathematical models of the universe consistent with the observed accelerating expansion of the universe. More specifically, de Sitter space is the maximally

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symmetric vacuum solution of  
Einstein's fie

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de Sitter space - Wikipedia  
de Sitter spacetime is the  
maximally symmetric  
spacetime of constant



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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 unrelated!) ways.

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Lecture Notes on Classical  
de Sitter Space

We analyze the model of a  
self-interacting  $\phi^4_{\text{star}}$  scalar field  
theory in Snyder-de Sitter

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space. After analytically computing the one-loop beta functions in the small noncommutativity and curvature limit, we solve numerically the corresponding system of differential equations,

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showing that in this limit  
the model possesses at least  
one regime in which the  
theory is ...

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Asymptotic freedom for  
 $\lambda \rightarrow 0$  ... -

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where  $(c)$ ,  $(\hbar)$  and  $(H)$  are light velocity, Planck constant, and Hubble parameter, respectively. The paper is organized as follows: In Sect. 2, some of the useful notations of de

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Sitter space and unitary irreducible representations of the de Sitter group will be recalled. Section 3 is devoted to a derivation of the de Sitter spin- $\left(\frac{3}{2}\right)$  'massless' field equation.

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'Massless' spin-  
 $\frac{3}{2}$  fields in  
the de Sitter space  
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We discuss properties of  
*Page 43/52*

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fuzzy de Sitter space  
defined by means of algebra  
of the de Sitter group  
 $\text{SO}(1,4)$  in  
unitary irreducible  
representations. It was  
shown before that this fuzzy  
space has local frames with

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metrics that reduce, in the commutative limit, to the de Sitter metric.

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Fuzzy de Sitter space - CORE  
Anti-de Sitter spacetime is  
non-linearly unstable for

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reflecting and asymptotically stable for optimally dissipative boundary conditions. The instability part of Conjecture 1 was first made in [ 12, 13] in connection with work on five-

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dimensional gravitational  
solitons. See also [ 14 ].

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Asymptotic Properties of  
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Sitter space and constraints  
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anisotropic fluid in Bianchi  
type-I space-time . By  
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Battal Kilinc. Cite . . .  
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10.1007/s10509-009-0254-9.

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anisotropic fluid in Bianchi  
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