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do some scientists  
believe that our  
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Achievements and  
Perspectives:  
"Holographic Space-  
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Something?  
Spacetime Versus

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Space Itself May Be  
Quantum in Nature  
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Black Holes and  
Holographic World  
John Preskill

“ Quantum  
Information and  
Spacetime ” The  
REAL source of  
Gravity might  
SURPRISE you...

~~How we know that~~



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~~Relativity can't be~~  
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Relativity: how  
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Did Einstein Mean  
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Quantum Reality:  
Space, Time, and  
Entanglement Antal  
Jevicki — Emergent  
Space Time in  
Simple Models  
Quantum limits to  
measuring  
spacetime geometry  
(GPS)

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Tiziana Vistarini –

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Fluctuations Of

Spacetime And

a possible

holographic

description of time

Episode 2: Carlo

Rovelli on Quantum

Mechanics,

Spacetime, and

Reality Fluctuations

Of Spacetime And

Holographic

Abstract:

Space--time can be

understood as some

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Space-time And  
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bubbles or loops  
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Noise In Atomic  
which are expected  
to be an outcome of  
a theory of quantum  
gravity. One  
recently discussed  
model for this kind  
of space--time  
fluctuations is the  
holographic  
principle which  
allows to deduce

# Acces PDF Fluctuations Of the structure of these fluctuations.

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Fluctuations of  
spacetime and  
holographic ...

Space – time can be  
understood as some  
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which are expected  
to be an outcome of

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Fluctuations Of

a theory of quantum

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model for this kind

of space – time

fluctuations is the

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principle which

allows to deduce

the structure of

these fluctuations.

We review and

discuss two

scenarios which

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spacetime and  
holographic noise in  
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Space--time can be  
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kind of space--time  
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bubbles or loops  
which are expected  
to be an outcome of



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Fluctuations Of

a theory of quantum gravity. One recently discussed model for this kind of space--time fluctuations is the holographic principle which allows to deduce the structure of these fluctuations.

Fluctuations of spacetime and

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On small scales  
spacetime can be  
understood as some  
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bubbles or loops  
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model for this kind

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Spacetime And  
Holographic  
Noise In Atomic

distance  $l$  is given,  
on the average, by  
 $(l / l_P)^2 \approx 1/3$  where  
 $l_P$  is the Planck  
length ...

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Spacetime And  
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spacetime can be  
understood as some  
kind of spacetime

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bubbles or loops  
which ...  
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Spacetime And  
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spacetime can be  
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model for this kind  
of spacetime  
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allows to deduce



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geometry of  
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holographic model  
of spacetime foam  
stipulates that the  
uncertainty or  
fluctuation of

# Acces PDF Fluctuations Of distance $l$ is given, on the average, by $l$ where $l$ is the Planck length.

Applied to  
cosmology, it  
predicts that the  
cosmic energy is of  
critical density and  
the cosmic entropy  
is the maximum  
allowed by the  
holographic  
principle.

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From spacetime  
foam to holographic  
foam cosmology -

NASA/ADS

Abstract: This  
essay outlines the  
Holographic Space-  
time (HST) theory  
of cosmology and  
its relation to  
conventional  
theories of inflation.  
The predictions of

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the theory are  
compatible with  
observations, and  
one must hope for  
data on primordial  
gravitational waves  
or non-Gaussian  
fluctuations to  
distinguish it from  
conventional  
models.

[1806.01749] The  
Holographic Space-

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Time Model of And  
Cosmology  
Applications of  
Holographic

Noise In Atomic  
Spacetime by  
Terrence J. Torres  
Here we present an  
overview of the  
theory of  
holographic  
spacetime (HST),  
originally devised  
and primarily  
developed by Tom

Acces PDF  
Fluctuations Of  
Banks and Willy  
Fischler, as well as  
its various  
applications and  
predictions for  
cosmology and  
particle  
phenomenology.  
First we cover

Applications of  
Holographic  
Spacetime  
Due to quantum



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spacetime is foamy

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distance  $l$  is given,

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( $l_P^2$ )  $1/3$  where  
 $l_P$  is the Planck  
length. Applied to  
cosmology, it  
predicts that the  
cosmic energy is of  
critical density and  
the cosmic entropy  
is the maximum  
allowed by the  
holographic  
principle.

From spacetime

*Page 34/46*

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Fluctuations Of

foam to holographic  
foam cosmology ...

First we cover the  
basic theory and  
motivation for

holographic

spacetime and move

on to present the

latest developments

therein as of the

time of this writing.

Then we indicate

the origin of the

quantum degrees of

Acces PDF  
Fluctuations Of  
freedom in the  
theory and then  
present a  
correspondence  
with low energy  
effective field  
theory.

Applications of  
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How we measure  
'reads'

(PDF) Fluctuations  
of spacetime and

*Page 37/46*

# Acces PDF Fluctuations Of Spectrographic noise in

...  
Holographic  
Noise In Atomic

In previous work,  
we demonstrated  
that the subatomic  
nucleon structure of  
the proton and  
recently the  
electron can be  
derived directly  
from a spacetime  
holographic  
structure of Planck-  
scale quantum

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Fluctuations Of  
vacuum oscillators  
fluctuating as  
spacetime pixels,  
demonstrating that  
spacetime at the  
very fine level of  
the Planck-scale is  
discrete with  
information quanta.

Research  
Publications  
Spacetime is  
composed of a

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fluctuating  
arrangement of  
bubbles or loops  
called spacetime  
foam, or quantum  
foam. We use the  
holographic  
principle to deduce  
its structure, and  
show that the result  
is consistent with  
gedanken  
experiments  
involving spacetime



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SPACETIME FOAM

| Noise In Atomic

Journal of Modern  
Physics D

We describe how  
this idea may be  
extended to  
determine the  
relationship  
between the  
fluctuations of the  
bulk holographic

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Fluctuations Of

geometry and the fluctuations of the boundary low-energy subspace. In this way we obtain, for every quantum system, an Einstein-like equation of motion for what might be interpreted as a bulk gravity theory dual to the boundary system.

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Fluctuations Of  
Spacetime And  
Holographic  
fluctuations and the  
principle of minimal

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The large  
fluctuations  
characteristic of a  
spacetime foam  
would be expected  
to occur on a length  
scale on the order  
of the Planck  
length. A foamy

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Fluctuations Of  
spacetime would  
have limits on the  
accuracy with  
which distances can  
be measured  
because the size of  
the many quantum  
bubbles through  
which light travels  
will fluctuate.

Quantum foam -  
Wikipedia

Due to quantum

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spacetime is foamy

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where  $l_P$  is the  
Planck length.

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