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May 31st, 2020 - since the contemporary theory of gravity general relativity describes gravitation as the curvature of spacetime by matter and energy a quantization of gravity seemingly implies some sort of quantization of spacetime geometry quantum spacetime'

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ligo lab caltech**

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sensed the undulations in spacetime caused**

by gravitational waves generated by two colliding black holes 1.3 billion light years away ligo's discovery will go down in history as one of humanity's greatest scientific achievements'

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'general relativity amp curved spacetime

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spacetime calculus this paper presents a
systematic account of space time calculus
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is divided into three parts part i reviews
the fundamentals of spacetime calculus with
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and physical foundations underlying our
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test particles with mass and massless
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thing gravitational eld'
'gravity

June 4th, 2020 - gravity from latin gravitas meaning weight or gravitation is a natural phenomenon by which all things with mass or energy including planets stars galaxies and even light are brought toward or gravitate toward one another on earth gravity gives weight to physical objects and the moon s gravity causes the ocean tides the gravitational attraction of the original gaseous matter'

'gravitation brilliant math amp science wiki

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field is curved so the time axis in simple
terms is no longer orthogonal to the space
axes the apple moving first only in the
time direction i e at rest in space starts
accelerating in space thanks to the
curvature the mixing of the space and time
axes the velocity in time bees velocity in
space'

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bartusiak einstein s unfinished symphony
listening to the sounds of space time 2000
gravitation the mutual attraction between
all masses and particles of matter in the
universe'

'gravitoelectromagnetism

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abbreviated gem refers to a set of formal
analogies between the equations for
electromagnetism and relativistic
gravitation specifically between maxwell s
field equations and an approximation valid

under certain conditions to the einstein field equations for general relativity gravitomagnetism is a widely used term referring specifically to the kinetic effects of'

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