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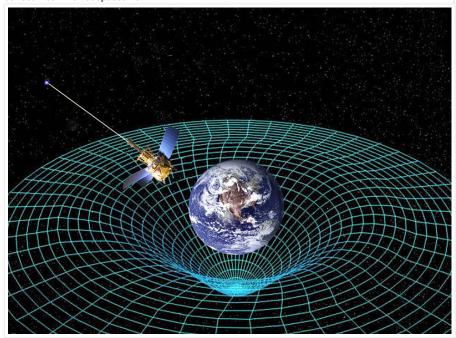
THURSDAY, JULY 19, 2012

A Wrinkle In Space-Time, How Shockwaves Could Crinkle Space

Math shows how shockwaves could crinkle space

Mathematicians at UC Davis have come up with a new way to crinkle up the fabric of space-time -- at least in theory.

Two-dimensional analogy of spacetime distortion. Matter changes the geometry of spacetime, this (curved) geometry being interpreted as gravity. The grid lines do not represent the curvature of space but instead represent the coordinate system imposed on the curved spacetime, which would be rectilinear in a flat spacetime.



Credit: Wikipedia

"We show that space-time cannot be locally flat at a point where two shock waves collide," said Blake Temple, professor of mathematics at UC Davis. "This is a new kind of singularity in general relativity."

The results are reported in two papers by Temple with graduate students Moritz Reintjes and Zeke Vogler, respectively, both published in the journal Proceedings of the Royal Society A.

Einstein's theory of general relativity explains gravity as a curvature in space-time. But the theory starts from the assumption that any local patch of space-time looks flat, Temple said.

A shock wave (also called shock front or simply "shock") is a type of propagating disturbance.

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A singularity is a patch of space-time that cannot be made to look flat in any coordinate system, Temple said. One example of a singularity is inside a black hole, where the curvature of space becomes extreme.

Temple and his collaborators study the mathematics of how shockwaves in a perfect fluid can affect the curvature of space-time in general relativity. In earlier work, Temple and collaborator Joel Smoller, Lamberto Cesari professor of mathematics at the University of Michigan, produced a model for the biggest shockwave of all, created from the Big Bang when the universe burst into existence.

A shockwave creates an abrupt change, or discontinuity, in the pressure and density of a fluid, and this creates a jump in the curvature. But it has been known since the 1960s that the jump in curvature created by a single shock wave is not enough to rule out the locally flat nature of spacetime.

Vogler's doctoral work used mathematics to simulate two shockwaves colliding, while Reintjes followed up with an analysis of the equations that describe what happens when shockwaves cross. He found this created a new type of singularity, which he dubbed a "regularity singularity."

What is surprising is that something as mild as interacting waves could create something as extreme as a space-time singularity, Temple said.

Temple and his colleagues are investigating whether the steep gradients in the space-time fabric at a regularity singularity could create any effects that are measurable in the real world. For example, they wonder whether they might produce gravity waves, Temple said. General relativity predicts that these are produced, for example, by the collision of massive objects like black holes, but they have not yet been observed in nature. Regularity singularities could also be formed within stars as shockwaves pass within them, the researchers theorize.

Reintjes, now a postdoctoral scholar at the University of Regensburg, Germany presented the work at the International Congress on Hyperbolic Problems in Padua, in June.

Contacts and sources: Andy Fell University of California - Davis

Posted by Alton Parrish at 1:23 PM



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University of Wisconsin-Milwaukee (UWM) researchers have identified an inexpensive nanorod catalyst with efficiencies rivaling that of platinum. Composed of nitrogen-enriched iron-carbon nanorods, the new catalyst holds the promise of cheaper, more

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BIOFUELS

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Oil group sues over law on scarce biofuel

Reuters

The U.S. oil industry's leading lobby group, The American Petroleum Institute filed a lawsuit in federal court in Washington saying no commercial quantities of the biofuel were available. The industry is penalized if it does not buy the fuel. "The ...

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Navy Pushes Biofuel Fleet Despite Concerns About

Heritage.org (blog)

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BioFuel Announces Earnings Release And

MarketWatch (press release)

DENVER, July 25, 2012 /PRNewswire via COMTEX/ -- BIOFUEL ENERGY CORP. (NASDAQ:BIOF) announced today that it will be releasing its second quarter 2012 earnings on Thursday, August 9, 2012, after the market closes. The Company plans to host a

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Final environmental rules for solar power released

RenewablesBiz

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Huffington Post (blog)

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Ikea installs solar panels to generate own power Chicago Daily Herald

The two suburban stores are among 25 that already have solar panels, generating enough kilowatt hours per year together to power about 200 homes. The company aims to install the panels in at least 39 of its 44 U.S. stores, distribution centers and ... Related Articles »

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Zyvex Marine Introduces First Nano-Composite Azom com

Zyvex Marine, the division of Zyvex Technologies that employs molecular nanotechnology to marine design, engineering and manufacturing, has launched the Long Range Vessel, LRV-17. It is the first manned boat to be made of nano-composite materials.

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The Value of the Global Fuel Cell Stack Supply Chain

EON: Enhanced Online News (press release)

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ABC Online

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Patent Office Grants NaturalNano Key Patent for Use

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New Apple patent integrates dock connector with iPod Australian Macworld

This patent displays a method of charging an iPod nano via integrating the power socket with the clip on the reverse of the device. The clip is extended and attached to charging points on a dock connector. A new adaptor for the current range of dock ... Related Articles »

Apple Patents Explore iPod Charging, Noise

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Chemistry World

US scientists have developed a pH sensor based on nanocrystal quantum dots designed to be used in a biological pH range. pH is an important factor in monitoring tumour health and the efficacy of anticancer treatments, and the sensor could be injected ...

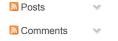
Pixelligent Technologies

bmoremedia

It recently hired Vice President of Manufacturing and Operations Daniel Russell, who is responsible for managing the manufacturing and engineering team and scaling up nanocrystal production. It also hired Shree Deshpande as vice president of business ...

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NANO PATENTS AND INNOVATIONS



QUANTUM DOTS

Quantum dot blend gives wide-bandwidth FET-based nanotechweb.org

Quantum dot blend gives wide-bandwidth FET-based photodetector. Solution-processed colloidal quantum dots (CQDs) have been used to fabricate a photodetector with interesting properties. By blending narrow-gap CQDs into hybrid polymer blends, ...

Technique self-assembles quantum dots with world's R & D Magazine

In addition, the NIMS researchers observed strong photoluminescence (PL) emission from the assembled quantum dots groups, suggesting that the developed technology is also effective for realizing excellent crystal quality. Quantum dots have attracted ...

Study Results Pave Way to Develop High

Azom.com

Atomic force microscope (AFM) image of ultra-high surface density quantum dots formed by reducing the amount of gallium irradiation to 3 monolayer at a growth temperature of 30°C. An ultra-high surface density of 7.3 x 1011/cm2 was achieved.

Researchers from University of Colorado Describe Equifies.com

By a News Reporter-Staff News Editor at Physics Week -- Current study results on Quantum Dots have been published. According to news reporting out of Boulder, Colorado, by VerticalNews editors, researchers stated "We have synthesized alkylselenide ...

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MEMS

MEMS NEMS

VectorNav Releases the World's First GPS-Aided

MarketWatch (press release)

Combining an advanced GPS module with the latest in MEMS inertial and pressure sensor technology, the patent-pending VN-200 provides a coupled position, velocity and attitude solution that is robust to a wide range of static and dynamic operating ...

New MEMS, 3D IC packaging working group chairs at ElectrolO

July 24, 2012 -- Global Semiconductor Alliance (GSA) recently named Jalinous (Jay) Esfandyari, MEMS product marketing manager, STMicroelectronics, as its MEMS Working Group chairman and Ken Potts, group director of marketing, Strategic Planning, ...

ST expects MEMS growth in Q3, but cuts 2012 capex ElectrolQ

ST said the "global economic environment has weakened" through the end of Q2, but expects new product momentum, particularly in micro electro mechanical systems (MEMS), microcontrollers, and power MOSFETs & IGBTs, to drive sequential growth, said

Yole updates World MEMS Players database for 2012

World MEMS Players 2012 database provides an overview of the worldwide MEMS market with an easy access to the MEMS players. World MEMS Players 2012 database gives a complete overview of the worldwide MEMS fabs. It includes contacts, business

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NANOFABRICATION AND NANO MANUFACTURING

nanofabrication nanotool SEM
nano manufacturing nano metrology
nanolithography Extreme Ultraviolet Light EUV
lithography MOCVD CVD nano probe

Researchers Develop New Materials and

AZoNano.com

It is not possible to create these miniaturized components using traditional techniques. These components may promote rapid analysis using small sample volumes at a lower cost. The research group has synthesized materials that facilitate concurrent ...

Emory University Leverages Nanolnk's Dip Pen

MarketWatch (press release)

CHICAGO, IL, Jun 26, 2012 (MARKETWIRE via COMTEX) -- NanoInk's NanoFabrication Systems Division is pleased to announce that Emory University recently purchased a Dip Pen Nanolithography(R) (DPN(R)) system to quantify the forces exerted by ...

UMD creates new tech for complex micro structures

COLLEGE PARK, Md. – University of Maryland Chemistry Professor John Fourkas and his research group have developed new materials and nanofabrication techniques for building miniaturized versions of components needed for medical diagnostics, ...

3D, light-trapping solar cells successfully fabricated by Engadget

We accomplished this task using commercially available equipment at the state-of-the-art Nanofabrication Facility at the University of California, Santa Barbara (UCSB)." Jim Nelson, CEO of Solar3D, said, "This is a major accomplishment for Solar3D. Related Articles »

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ABOUT ME

Alton Parrish

I am a senior market analyst for Innovative Research and Products Inc. which provides custom market research on cutting edge technology topics

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QUANTUM DOTS

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 semiconductor quantum dots

Man makes microscopic Olympic Torch

he Press Association

He was trying to make an antenna to help funnel a wave of light into and out of a quantum dot - a portion of matter whose smallest parts are confined in all three spatial dimensions. The 28-year-old PhD student came up with the nano-torch a month ago ... Related Articles »

Quantum dot blend gives wide-bandwidth FET-based nanotechweb.org

Quantum dot blend gives wide-bandwidth FET-based photodetector. Solution-processed colloidal quantum dots (CQDs) have been used to fabricate a photodetector with interesting properties. By blending narrow-gap CQDs into hybrid polymer blends, ...

Technique self-assembles quantum dots with world's R & D Magazine

In addition, the NIMS researchers observed strong photoluminescence (PL) emission from the assembled quantum dots groups, suggesting that the developed technology is also effective for realizing excellent crystal quality. Quantum dots have attracted ...

Study Results Pave Way to Develop High

Azom.com

Moreover, the self-assembled quantum dot groups emitted powerful photoluminescence, which indicates

that the devised technology can also be used to obtain superior crystal quality. In this technology, utilization of a high-index-surface substrate ...

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BIOLOGICAL NANOTECHNOLOGY

nano bio nano biological biomimetics nano health nano FDA nano EPA nano drug delivery nanotechnology drug delivery nano diagnostic nano dna

Novel Nano Bio-Sensor Able to Detect Lactate

Equities.com

Novel Nano Bio-Sensor Able to Detect Lactate Contents [FARS News Agency]. Al Bawaba Ltd. Their proposed bio-sensor involves a nanocomposite, consisting of functionalized carbon nanotubes and magnetic iron oxide nanoparticles, used in a process

Bio-Retina to enter clinical trials in 2013

Gizma

Nano Retina has now developed the Bio-Retina - a tiny (3 x 4 mm) microchip implant that is inserted into the eye and glued to the retina in a minimally invasive procedure. It does not treat AMD, but rather seeks to relieve the blindness resulting from AMD.

Related Articles »

UM Regents Vote on Pharma Manufacturing

The Ann Arbor Chronicle

At this point, the conflict-of-interest item is a retroactive disclosure of consulting services with NanoBio Corp. from Feb. 10, 2012, through June 30, 2012, with a value not to exceed \$54000. The firm's owner, James Baker, is a UM medical professor ...

Advanced Manufacturing Confab Announces All-Star

EON: Enhanced Online News (press release)

GREENSBORO, N.C.--(BUSINESS WIRE)--North Carolina's Joint School of Nanoscience & Nanoengineering, the Center of Innovation for Nanobiotechnology (COIN), the NanoBusiness Commercialization Association (NanoBCA), and the North Carolina ...

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NANOCOATINGS

Nanocoating Nanotechnology coatings nano-coating

XTIO2 Fabric Achieves the World's Highest 100%

EON: Enhanced Online News (press release)

XTIO2 is the only company in the world whose TiO2-nanocoating technology has received 100% effective antigerm results on coated materials from SGS against dangerous E.coli and MRSA (S.aureus) bacteria. Tests were commissioned by Cleancoating ...

Water Repellant Nano-Coated Glove from P2i and

AZoNano.com

P2i, a developer of liquid repellent nano-coating technology, and Trekmates, an outdoor accessories manufacturer, have won the OutDoor INDUSTRY AWARD 2012 for the DRY Mountain Lite Mitt that the two companies developed in collaboration.

P2i to Demonstrate Aridion Nano-Coating at CEA

Azom.com

At CEA LineShows, P2i, a provider of liquid repellent nano-coating technology, will display its Aridion nano-coating that gives superior protection to electronic devices against summer splashes and spills caused by the pool and at the beach. The ...

100% effective nanocoating

Sustainable Nonwovens

The nanocoating technology of Delaware-registered US company XTI is believed to be the first in the world to achieve an antibacterial efficacy rate of 100%. The company's Active-Shield fabric has been verified 100% effective against dangerous E.coli ...

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MICROFLUIDICS

microfluidic chips microfluidic microfluidics nanofluidics microfluidics lab on a chip microfluidics nanotechnology

Microfluidic Interface provides PDMS chip connection.

ThomasNet Industrial News Room

Royston, UK - Microfluidics expert Dolomite has extended its world leading Multiflux® range to include an innovative PDMS Chip Interface which provides a flexible and fast solution for PDMS chip connections. PDMS chips are frequently used for academic ...

Wyss Institute receives up to \$37 million from DARPA

Phys.Org (press release)

Each individual organ-on-chip is composed of a clear flexible polymer -about the size of a computer memory stick- that contains hollow microfluidic channels lined by living human cells. Credit: The Wyss Institute for Biologically Inspired Engineering ...

Related Articles »

Human Body on a Chip

Genetic Engineering News

A new program will combine technologies developed at MIT, Charles Stark Draper Laboratory, MatTek, and Zyoxel to create a versatile microfluidic platform that can incorporate up to 10 individual engineered human microphysiological organ system modules ...

Intelligent Flow Control Improves Performance of AZoNano.com

Microfluidics expert Dolomite has enhanced its world leading Mitos P-Pump range with the introduction of intelligent closed-loop Flow Control which provides unparalleled control of flow rates from 70 nl/min to 5 ml/min. ... Dolomite Introduces Hotplate ...

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NANOWIRE

Silver Nanowire Composite Films Used In Transparent AZoNano.com

By Gary Thomas. Researchers at the University of California, Los Angeles (UCLA) have created a new type of transparent polymer solar cells (PSC) that are capable of generating electricity. These cells can be fixed onto windows. The novel technology ... Related Articles »

Elastic Conductors Using Silver Nanowires

Product Design & Development

Dr. Yong Zhu, an assistant professor of mechanical

and aerospace engineering at NC State, and Feng Xu, a Ph.D. student in Zhu's lab have developed such elastic conductors using silver nanowires. Silver has very high electric conductivity, meaning that ...

Flexible silver nanowire-based transparent conductors LiveScience.com

Transparent conductors are an important component in many of today's technologies. These conductors are used extensively in LCD TV displays, cell phones, ereaders, touch screens, computer monitors and many other commercial devices. Additionally ...

Silver nanowire conductors could mean better

"Ag [silver] nanowires (NWs) have higher conductivity that carbon nanotubes (CNTs) or other metal nanowires," he told us. "As such, the conductivity of AgNW stretchable conductor in our case is higher than other CNT based stretchable conductors." ...

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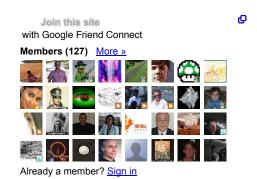
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