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There s A lot of Dust Out There in the Universe: related news

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There's A lot of Dust Out There in the Universe

> The whole point of putting telescopes in orbit is to avoid distortions caused by our murky atmosphere. But now astronomers say they have calculated only half the light of our **universe** reaches telescopes – even those in orbit – because of the amount of **dust** that permeates the **universe**. In essence, they say, the **universe** is twice as bright as previously thought. The lead author of a new paper detailing this discovery, Dr. Simon Driver from the University of St Andrews said, "For nearly two decades we've argued about whether the light that we see from distant galaxies tells the whole story or not. It doesn't; in fact only half the energy produced by stars actually reaches our telescopes directly, the rest is blocked by **dust** grains."

in *Space Science* via Universe Today @ 15:51 19th May - Related

Dust dimming our universe

> Astronomers from UK universities, working with colleagues from Germany and Australia, have calculated that the **universe** is actually twice as bright as previously thought. In the May 10th Astrophysical Journal Letters, the astronomers describe how **dust** is obscuring approximately half of the light that the **universe** is currently generating.

in *General Science* via Astronomy Magazine @ 10:23 18th May - Related

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Model of Image Artifacts From Dust Particles

A mathematical model of image artifacts produced by **dust** particles on lenses has been derived. Machinevision systems often have to work with camera lenses that become dusty during use. **Dust** particles on the front surface of a lens produce image artifacts that can potentially affect the performance of a machine-vision algorithm. The present model satisfies a need for a means of synthesizing **dust** image artifacts for testing machine-vision algorithms for robustness (or the lack thereof) in the presence of **dust** on lenses.

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Model of Image Artifacts From Dust Particles

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This Week's "Where in the Universe?" Challenge

Here's your image for this week's "Where in the **Universe**?" challenge. Take a look at the image and before proceeding to the end of this post, make your guess as to what location in the **universe** is represented here. It could be anywhere — nothing is off limits for this challenge! Near or distant, far and wide, **Universe** Today spares no expense when it comes to searching for unique and unusual images to test your visual knowledge of our **universe**! Give yourself an extra point for guessing (or knowing) the feature shown here, and another point for naming the spacecraft that took this image. Just a couple more ticks on the timer here before revealing the awesome power of this week's image….

in *Space Science* via Universe Today @ 20:39 14th May - Related

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Before the Big Bang: A Twin Universe?

esocid writes "Until very recently, asking what happened at or before the Big Bang was considered by physicists to be a religious question. General relativity theory just doesn't go there — at T=0, it spews **out** zeros, infinities, and errors — and so the question didn't make sense from a scientific view. But in the past few years, a new theory called Loop Quantum Gravity (LQG) has emerged. The theory suggests the possibility of a "quantum bounce," where our **universe** stems from the collapse of a previous **universe**. This may be similar with beliefs of Physicist Neil Turok of Cambridge University who has theorized about a cyclic **universe**, constantly expanding and compressing."

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Lunar telescope exploring 'dark ages' of universe can reveal how the universe was created by the advanced

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Astronomers use new model of dust in galaxies to remeasure the total energy output of stars in the universe

> Astronomers use new model of **dust** in galaxies to remeasure the total energy output of stars in the **universe**

in *General Science* via PhysOrg.com @ 6:44 16th May - Related

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Galaxies Twice As Bright As Previously Thought

> Astronomers led by Simon Driver of Scotland's University of St. Andrews have discovered that interstellar **dust** shades us from as much as 50% of the light emitted by stars and galaxies. The scientists compared the number of galaxies we could see "edge-on" against the number which were "facing us," reasoning that **dust** would obscure more of the former, since we already receive less light from them. SPACE.com notes, "In fact, the researchers counted about 70 percent fewer edge-on galaxies than face-on galaxies." A NYTimes report provides some additional details: "Interstellar **dust** absorbs the visible light emitted by stars and then re-radiates it as infrared, or heat, radiation. But when astronomers measured this heat glow from distant galaxies, the **dust** appeared to be putting **out** more energy than the stars.

in *Web Developer* via Slashdot @ 10:15 19th May - Related

Did pre-big bang universe leave its mark on the sky?

> WHAT happened before our **universe** began? According to two theoretical physicists, if there was a **universe** before ours then it should have been remarkably similar to this one, with the same basic ingredients and properties. It may even be possible to see a faint picture of our parent **universe** imprinted on the sky.

in *Space Science* via New Scientist @ 8:41 10th Apr - Related

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Blog Buzz: Fighting Out of Iraq, Media Out of Debates, Never Out of Paul, and the McCain-Newsweek Spat

> News of a cease-fire agreement in Baghdad between the Iraqi government and the Sadr forces is being greeted with skepticism from all points of the ideological compass, including Juan Cole and Spence Ackerman on the left and Red State's Jeff Emanuel on the right.

in *Blog Watch* via US News @ 22:29 12th May - Related

Doughnut-Shaped Universe Back In the Race

> SpaceAdmiral writes "The once-popular idea that the **universe** could be small and finite is making a comeback. Many researchers thought that a 'wraparound' **universe** would mean that distant objects would be seen multiple times in the sky, but new research suggests that a '3-torus' (or 'doughnut **universe**'), as well as other shapes, could fit our actual observations, particularly the WMAP data."

in *Web Developer* via Slashdot @ 9:00 28th May - Related

Apple: iPhone sold out online in US, UK

> SAN FRANCISCO (AP) - Apple Inc. said Monday its online stores in the U.S. and U.K. are sold **out** of the iPhone, a sign supplies are being winnowed ahead of the launch of the device's next generation featuring faster Internet surfing speeds. The Cupertino-based company confirmed that the iPhone is **out** of stock online, but added that brick-and-mortar stores run by Apple and iPhone carriers including AT&T Inc. might still have units available. Apple has been known for clearing **out** its inventory of a certain product ahead of a major upgrade. Apple spokeswoman Natalie Kerris declined to comment on reasons for the shortage and on Apple's plans for an update to the device, which is widely expected to be unveiled in June at Apple's Worldwide Developers Conference in San Francisco.

in *Handhelds* via Quote.com Canada @ 20:05 12th May - Related

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Borders Opens Online Store; Wont Out-Amazon Former Partner

> imageAs Borders finally takes control of its online store from Amazon (NSDQ: AMZN), the books retailer has a **lot** of uncertainties ahead of it. AP provides an overview of Borders' challenges: despite denials of hopes of "**out**-Amazoning" Amazon as an online retailer, Borders will have a tough time convincing book buyers to make their purchases on its site as opposed to its partner for seven years. Borders is placing a **lot** of emphasis on its "Magic Shelf," which is designed to offer a simulacrum of being in a bookstore with "staff picks" and the usual online recommendations based on previous purchases.

in *E-commerce* via PaidContent.org @ 13:34 27th May - Related

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What is the Biggest Star in the Universe?

> My six-year old daughter is a question asking machine. We were driving home from school a couple of days ago, and she was grilling me about the nature of the **Universe**. One of her zingers was this, "What's the Biggest Star in the **Universe**"? I had an easy answer, the **Universe** is a big place, and there's no way we can possibly know what the biggest star is. That didn't go over so well. So she refined the question. What's the biggest star that we know of?

in *Space Science* via Universe Today @ 15:16 7th Apr - Related

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Cool Links: Two New Ways to Explore the Virtual Universe, in Vivid 3-D

> New York Times science reporter Steve Lohr has written a story on two fascinating "virtual **universe**" projects—Microsoft's WorldWide Telescope, and Google's Google Sky—through which, he writes, "… galactic destinations … can now be toured and explored at the controls of a computer mouse, with the constellations, stars and space **dust** displayed in vivid detail and animated imagery across the screen." Read about "Two New Ways to Explore the Virtual **Universe**, in Vivid 3-D" HERE at the New York Times online, and pass the word to your science teacher colleagues.

in *General Science* via Infotoday @ 21:03 21st May - Related

What was Before the Big Bang? An Identical, Reversed Universe

> So what did exist before the Big Bang? This question would normally belong in the realms of deep philosophical thinking; the laws of physics have no right to probe beyond the Big Bang barrier. There can be no understanding of what was there before. We have no experience, no observational capability and no way of travelling back through it (we can't even calculate it), so how can physicists even begin to think they can answer this question? Well, a new study of Loop Quantum Gravity (LQG) is challenging this view, perhaps there is a way of looking into the pre-Big Bang "**universe**". And the conclusion? The Big Bang was more of a "Big Bounce", and the pre-bounce **universe** had the same physics as our **universe**... just backwards... Confused? I am...

in *Space Science* via Universe Today @ 5:12 16th Apr - Related

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Interstellar dust darkens the universe

> The **universe** is dustier than previously thought, which is why astronomers now suggest it is twice as bright as it appears.

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Interstellar dust darkens the universe

> BEIJING, May 16 (Xinhuanet) -- The **universe** is dustier than previously thought, which is why astronomers now suggest it is twice as bright as it appears.

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Universe at War: Earth Assault (Xbox 360)

> **Universe** at War: Earth Assault (Xbox 360) screenshot 1
> **Universe** at War: Earth Assault (Xbox 360) screenshot 2

in *Computer Games* via CNET @ 8:10 3rd Apr - Related

Poll: How often do you update your site?

> One common tip for improving traffic to your website is to post more often. After all, if you post once a week, your readers will figure that **out** and come back once a week - so if you post twice a week, they should figure that **out** too and come back twice as much. But it can take a **lot** of thought and effort to post a **lot** on a website.

in *Webmaster Tips* via About @ 11:55 24th Apr - Related

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