

# Alternative Cosmology Group Newsletter - May 2005

Posted May 31, 2005

Discovery of Strong Lensing by an Elliptical Galaxy at  $z=0.0345$

<http://www.arxiv.org/abs/astro-ph/0504453>

The Lithium Content of the Galactic Halo Stars

<http://www.arxiv.org/abs/astro-ph/0505247>

Fractal dimensions of the galaxy distribution varying by steps?

<http://www.arxiv.org/abs/astro-ph/0504442>

**Fractal Challenge! Looks like a fractal universe.**

Fractured Universe

<http://www.fortunecity.com/emachines/e11/86/fractured.html>

The self-similar Cosmological Model

<http://www.amherst.edu/~rlolders/menu.html>

Fractal Universe - A Pictorial Hypothesis by Colin Hill

<http://www.fractaluniverse.org/>

Our Fractal Universe

<http://www.cyberian.ca/fractals/>

**Why Titan and the Earth have similar polar vortexes? What powers Titan's Hot Spot?**

Titan's Atmosphere Revealed by New NASA Observation

[http://www.nasa.gov/centers/goddard/news/topstory/2005/Titan\\_Ozone\\_Hole.html](http://www.nasa.gov/centers/goddard/news/topstory/2005/Titan_Ozone_Hole.html)

Titan's Hot Spot

<http://saturn.jpl.nasa.gov/news/press-release-details.cfm?newsID=576>

**Mysterious intense bombardment or something else.**

Lunar "dark spots" point to an upheaval in planetary orbits long after the formation of the solar system

<http://www.swri.org/9what/releases/2005/Spots.htm>

**Rings and gaps between them. How do they form? Do they look like fractal?**

Bending the Rings

<http://saturn.jpl.nasa.gov/multimedia/images/image-details.cfm?imageID=1542>

Cassini Radio Signals Decipher Saturn Ring Structure

<http://saturn.jpl.nasa.gov/news/press-release-details.cfm?newsID=575>

Solar Fireworks Signal New Space Weather Mystery

[http://www.nasa.gov/home/hqnews/2005/may/HQ\\_05132\\_solar\\_fireworks.html](http://www.nasa.gov/home/hqnews/2005/may/HQ_05132_solar_fireworks.html)

**Do we understand the formation of planets? Has anyone seen a forming planet?**

Clues to planet formation revealed

<http://www.umich.edu/news/index.html?Releases/2005/May05/r052305>

**What keeps these black holes from merging?**

Twin Black Holes Churn at the Heart of M83

[http://www.universetoday.com/am/publish/twin\\_black\\_holes\\_m83.html?1852005](http://www.universetoday.com/am/publish/twin_black_holes_m83.html?1852005)

**Why do they dance rather than merge?**

MOST SPACE TELESCOPE SEES "TAIL WAGGING DOG" IN STAR-EXOPLANET SYSTEM

[http://www.astro.umontreal.ca/~casca/PR/Casca2005\\_Matthews\\_b.html](http://www.astro.umontreal.ca/~casca/PR/Casca2005_Matthews_b.html)

Did Iapetus Consume One of Saturn's Rings?

[http://www.universetoday.com/am/publish/iapetus\\_consume\\_saturn\\_ring.html?1252005](http://www.universetoday.com/am/publish/iapetus_consume_saturn_ring.html?1252005)

**Something really happened here.**

Scientists Watch Black Hole Born in Split-Second Light Flash

<http://www.science.psu.edu/alert/Sigurdsson5-2005.htm>

Shedding Light on Dark Gamma Ray Bursters

[http://www.universetoday.com/am/publish/shedding\\_light\\_dark\\_grbs.html?1052005](http://www.universetoday.com/am/publish/shedding_light_dark_grbs.html?1052005)

Astronomers Confirm the First Image of a Planet Outside of Our Solar System

<http://www.eso.org/outreach/press-rel/pr-2005/pr-12-05.html>

Near Perfect "Einstein Ring" Discovered

[http://www.universetoday.com/am/publish/perfect\\_einstein\\_ring.html?2942005](http://www.universetoday.com/am/publish/perfect_einstein_ring.html?2942005)

**Too hot to handle!**

XMM-Newton sees 'hot spots' on neutron stars

[http://www.esa.int/esaCP/SEMLY9NQS7E\\_index\\_0.html](http://www.esa.int/esaCP/SEMLY9NQS7E_index_0.html)

**Something tugs light along its path.**

SDSS uses 200,000 quasars to confirm Einstein's prediction of cosmic magnification

<http://www.sdss.org/news/releases/20050426.magnification.html>