

Dumbbell Nebula M27

# Cosmology/Astrophysics News

June 17, 2015

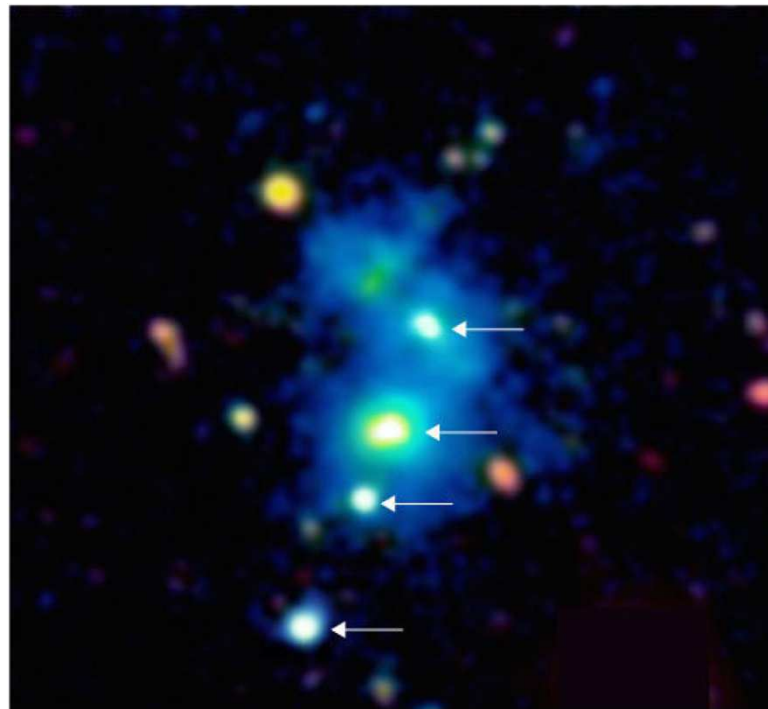
for Rose City Astronomers SIG

<http://101iq.com/RCA>

# Science – May 15, 2015

- Quasar quartet embedded in giant nebula reveals rare massive structure in distant universe – may help with galaxy formation models

– <http://www.sciencemag.org/content/348/6236/779.short>



# Nature – May 21, 2015

- Spots spotted on Vega star
  - <http://www.aanda.org/articles/aa/abs/2015/05/aa25425-14/aa25425-14.html>
- What is really real? - quantum weirdness article
  - <http://www.nature.com/news/quantum-physics-what-is-really-real-1.17585>
- A strong ultraviolet pulse from a newborn type Ia supernova
  - <http://www.nature.com/nature/journal/v521/n7552/full/nature14440.html>
- No signature of ejecta interaction with a stellar companion in three type Ia supernovae
  - <http://www.nature.com/nature/journal/v521/n7552/full/nature14455.html>

# Science – May 22, 2015

- Modeling powerful mergers – looking for gravity waves from mergers of large objects
  - <http://authors.library.caltech.edu/57621/1/PhysRevLett.114.161103.pdf>
- Low-altitude magnetic field measurements by MESSENGER reveal Mercury's ancient crustal field
  - <http://www.sciencemag.org/content/348/6237/892.figures-only>

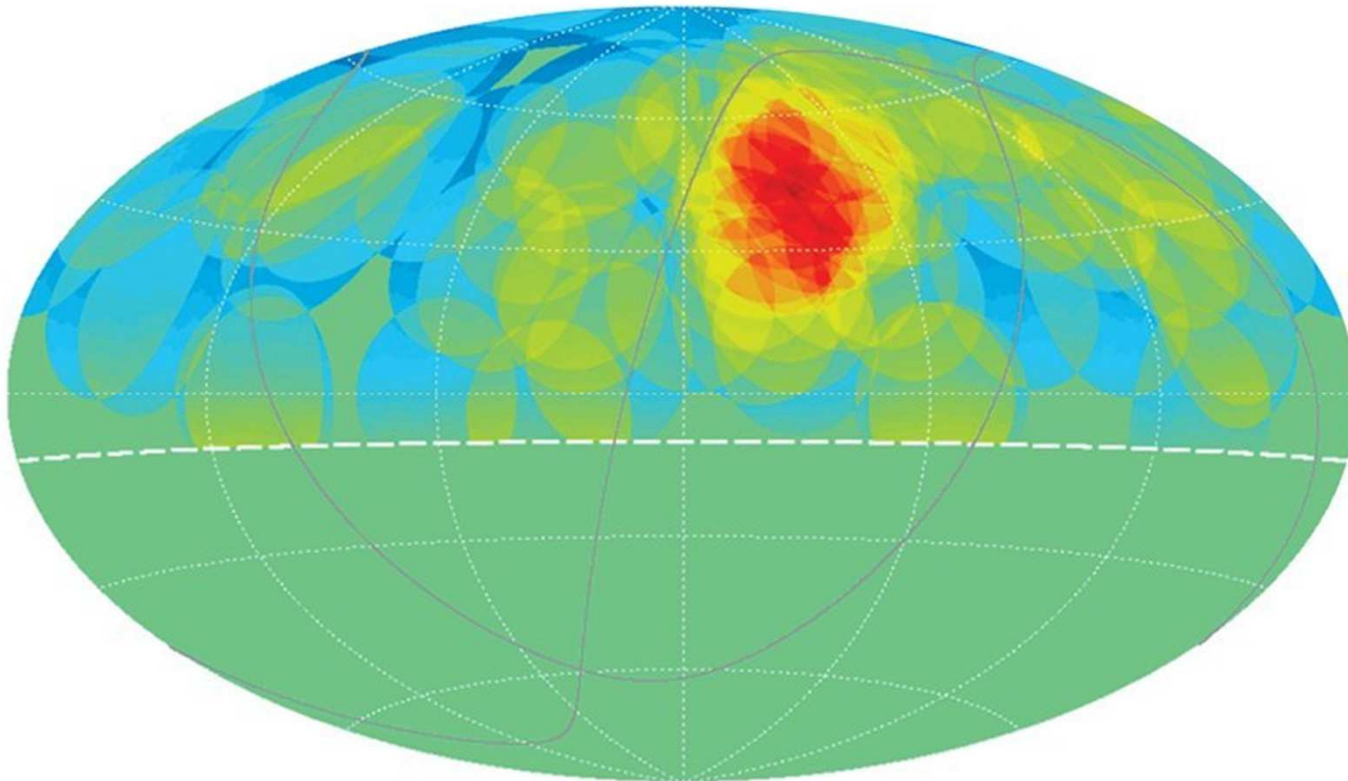
# Nature – May 28, 2015

- A kiloparsec-scale internal shock collision in the jet of a nearby radio galaxy
  - <http://www.nature.com/nature/journal/v521/n7553/full/nature14481.html>

# Science – May 29, 2015

- Massive cosmic ray detector grows – hot spot found by 507 telescope array in Utah

– [http://www.sciencemagazinedigital.org/sciencemagazine/29\\_may\\_2015?folio=948#pg8](http://www.sciencemagazinedigital.org/sciencemagazine/29_may_2015?folio=948#pg8)

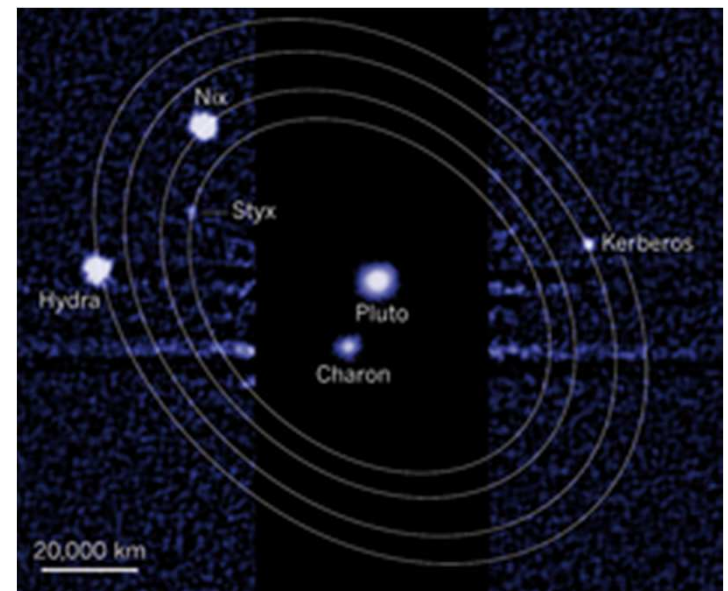
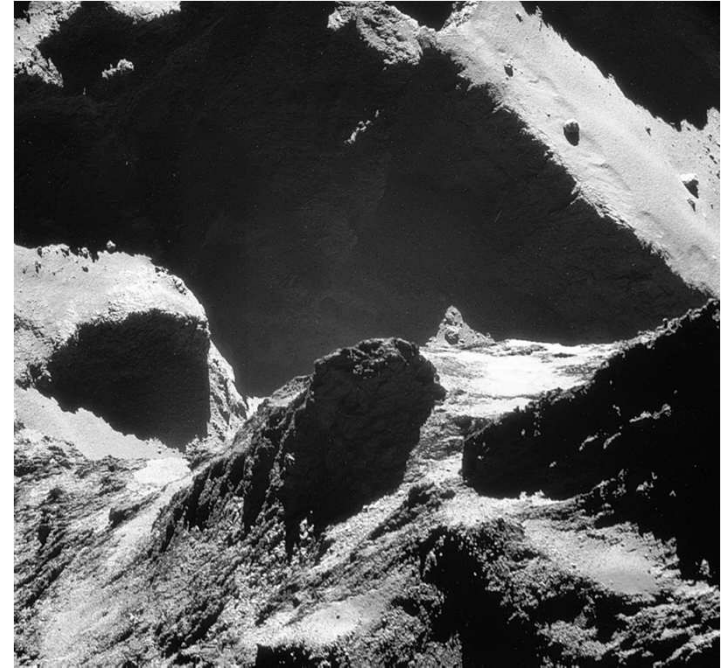


# Scientific American – June 2015

- Dark Matter Drops a Clue
  - Dark matter may be subject to an undiscovered force, interacting with itself
    - <http://www.scientificamerican.com/article/dark-matter-particles-interact-with-themselves/>
- All the Light There Ever Was
  - <http://www.scientificamerican.com/article/how-astronomers-discovered-the-universe-s-hidden-light/>

# Nature – June 4, 2015

- Rosetta zooms in on heart of comet
  - <http://www.nature.com/news/the-week-in-science-29-may-4-june-2015-1.17686>
- Pluto leads the way in planet formation
  - <http://www.nature.com/nature/journal/v522/n7554/full/522040a.html>
- Resonant interactions and chaotic rotation of Pluto's small moons
  - <http://www.nature.com/nature/journal/v522/n7554/full/nature14469.html>





# Science – June 5, 2015

- Hawaii's governor proposes telescope swap
  - <http://news.sciencemag.org/policy/2015/06/hawaii-s-governor-proposes-telescope-swap>



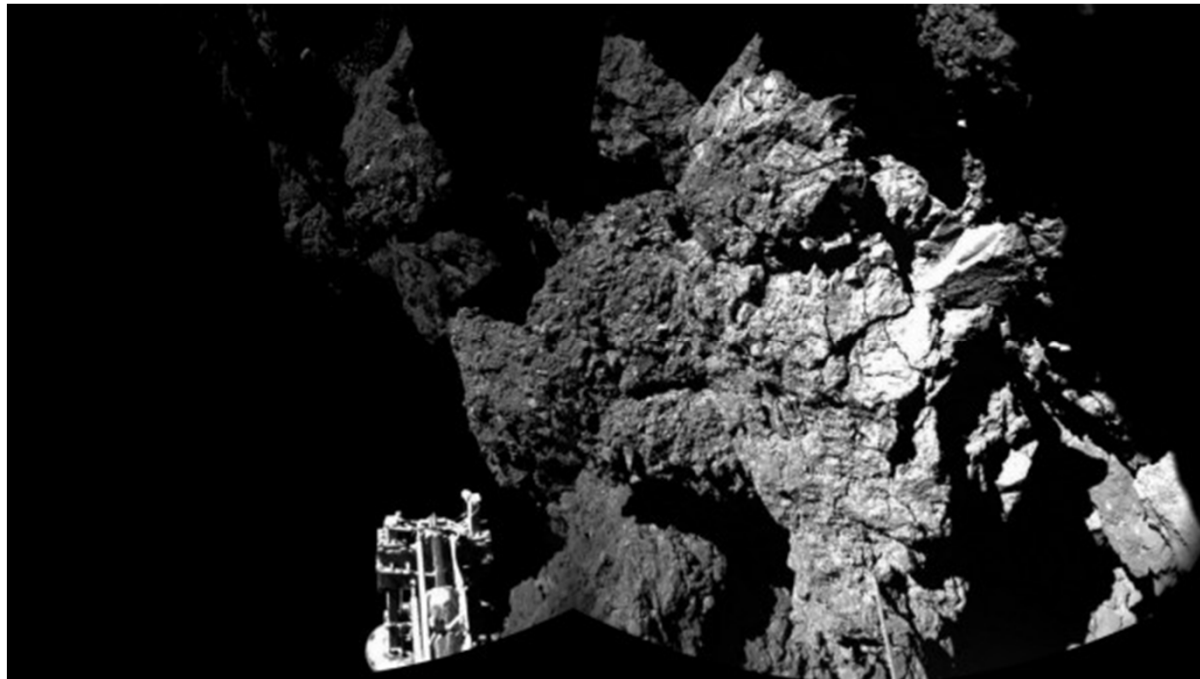
# Nature – June 11, 2015

- Small particles dominate Saturn's Phoebe ring to surprisingly large distances
  - <http://www.nature.com/nature/journal/v522/n7555/full/nature14476.html>
- Small-scale dynamo magnetism as the driver for heating the solar atmosphere
  - <http://www.nature.com/nature/journal/v522/n7555/full/nature14478.html>

# Science – Daily news – June 14, 2015

- Scientists celebrate comet lander Philae's call after 7-month slumber

– [http://news.sciencemag.org/europe/2015/06/scientists-celebrate-comet-lander-philae-s-call-after-7-month-slumber?utm\\_campaign=email-news-latest&utm\\_src=email](http://news.sciencemag.org/europe/2015/06/scientists-celebrate-comet-lander-philae-s-call-after-7-month-slumber?utm_campaign=email-news-latest&utm_src=email)



# Science – Daily news – June 17, 2015

- **Astronomers spot first-generation stars, made from big bang**

- <http://news.sciencemag.org/space/2015/06/astronomers-spot-first-generation-stars-made-big-bang>

Astronomers found evidence for the very first generation of stars, made of only hydrogen and helium. These “population III stars” are expected to be enormous with short lifespan. Using new instruments on top telescopes, they found a bright galaxy that seems to meet all of the requirements for containing population III stars...