

On the Canary Islands

# Cosmology/Astrophysics News

July 19, 2017

for Rose City Astronomers SIG

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

# Science – June 16, 2017

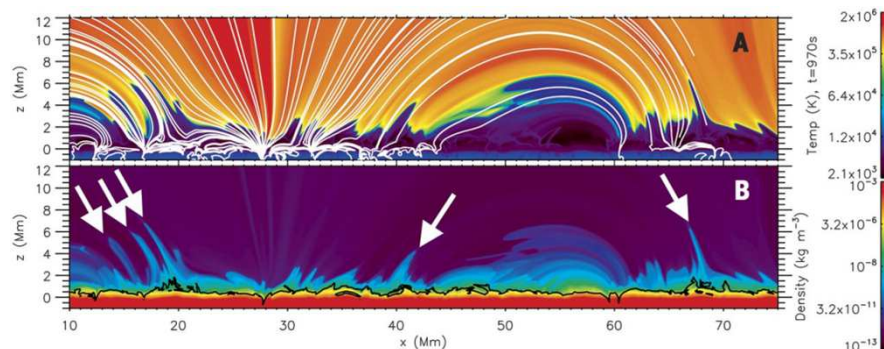
- China selects site for Chang'e-5 lunar lander for November
  - <https://spaceflightnow.com/2017/01/25/china-sets-november-launch-for-lunar-sample-return-mission/>
- Designers squabble over optical design for 12 meter Chinese scope
  - <http://science.sciencemag.org/content/356/6343/1107>

# Nature – June 22, 2017

- How galaxies expanded
  - <https://www.nature.com/articles/d41586-017-00880-8>
- China launches Hard X-ray Modulation Telescope (HXMT)
  - <https://chinaspacereport.com/2017/06/20/hard-x-ray-modulation-telescope-launched-from-jiuquan/>
- Kepler's tally – 10 more earth sized exoplanets
  - <https://www.nytimes.com/2017/06/19/science/kepler-planets-earth-like-census.html>
- No sign of asymmetry in the strong force
  - [http://www.nature.com/nature/journal/vaop/ncurrent/full/nature23086.html?WT.feed\\_name=subjects\\_physics](http://www.nature.com/nature/journal/vaop/ncurrent/full/nature23086.html?WT.feed_name=subjects_physics)
- A massive, dead disk galaxy in the early Universe
  - <https://www.nature.com/nature/journal/v546/n7659/full/nature22388.html>
- A giant planet undergoing extreme-ultraviolet irradiation by its hot massive-star host
  - <https://www.nature.com/nature/journal/v546/n7659/full/nature22392.html>

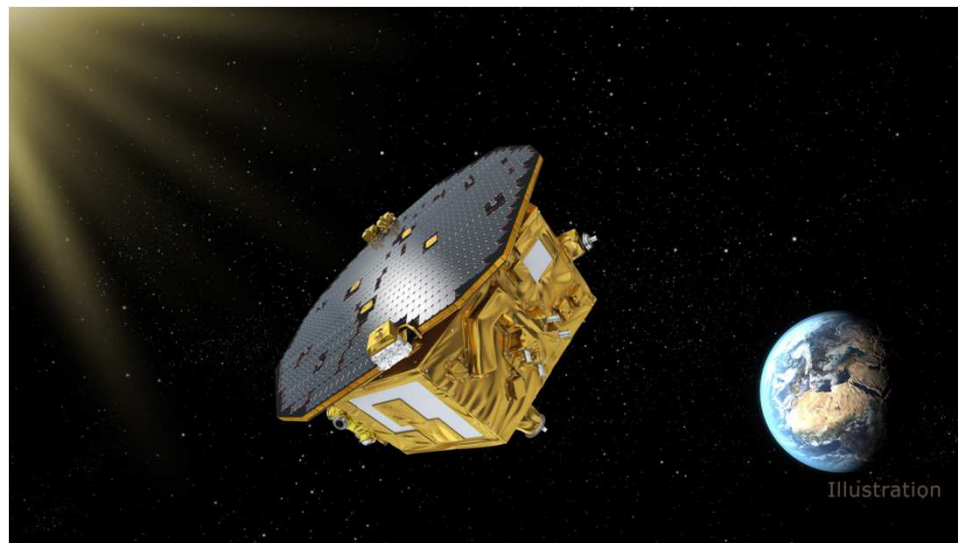
# Science – June 23, 2017

- New haul of distant worlds casts doubt on Planet Nine
  - Icy bodies show no sign of giant’s gravitational influence
    - <http://www.sciencemag.org/news/2017/06/new-haul-distant-worlds-casts-doubt-planet-nine>
- Timing the life cycle of molecular clouds
  - <http://science.sciencemag.org/content/356/6344/1244.1>
- On the generation of solar spicules and Alvenic waves
  - <http://science.sciencemag.org/content/356/6344/1244.1Asd>
  - <https://www.sciencedaily.com/releases/2017/06/170622171416.htm>



# Nature – June 29, 2017

- Three-craft gravity-wave mission gets green light – success of LISA Pathfinder test satellite paves way for full-scale experiment
  - <https://www.scientificamerican.com/article/success-of-gravity-wave-satellite-paves-way-for-3-craft-mission/>
  - <https://www.jpl.nasa.gov/news/news.php?feature=6526>
  - Video: <https://www.youtube.com/watch?v=TsgfnkSJdqs>



# Science – June 30, 2017

- The unbearable lightness of neutrinos – Physicists make one last grand push to weigh the most elusive bits of matter
  - <http://science.sciencemag.org/content/356/6345/1322>



# Nature – July 6, 2017

- No cosmology news this issue

# Science – July 7, 2017

- Runaway star fled nearby galaxy

- [http://www.sciencemaginedigital.org/sciencemagazine/07\\_july\\_2017?pg=8#pg8](http://www.sciencemaginedigital.org/sciencemagazine/07_july_2017?pg=8#pg8)





# Nature – July 13, 2017

- Puzzling binary star detected – WD1202-024
  - <https://www.nature.com/articles/d41586-017-01165-w>
- Stardust goes organic – complex organic molecules in embryonic star Haro-212
  - <https://www.eso.org/public/usa/news/eso1513/>
- Suppressing quantum noise could make gravitational wave detectors more sensitive
  - <http://www.nature.com/news/tricks-to-mute-quantum-noise-aid-hunt-for-gravitational-waves-1.22286>
- Witness gravity's quantum side in the lab
  - <http://www.nature.com/news/witness-gravity-s-quantum-side-in-the-lab-1.22273>
- Sensing beyond the quantum limit
  - <http://www.nature.com/nature/journal/v547/n7662/full/547164a.html>
  - <http://www.nature.com/nature/journal/v547/n7662/full/nature22980.html>

# Scientific American – July 2017

- Black holes from the beginning of time – hidden population of black holes born less than one second after the big bang could solve the mystery of dark matter
  - <http://palgrave.nature.com/scientificamerican/journal/v317/n1/full/scientificamerican0717-38.html>
  - [http://palgrave.nature.com/scientificamerican/journal/v317/n1/box/scientificamerican0717-38\\_BX1.html](http://palgrave.nature.com/scientificamerican/journal/v317/n1/box/scientificamerican0717-38_BX1.html)

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