

Cosmology/Astrophysics News

Big white vortex
spotted by GOES
satellite on a planet

October 17, 2018 for Rose City Astronomers SIG

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

Science – September 14, 2018

- LHC physicists plan hunt for rare Higgs boson pairs – may point to new particles or forces and explanation of matter-antimatter imbalance
 - <http://science.sciencemag.org/content/361/6407/1054>

Nature – September 20, 2018

- Superluminal motion of a relativistic jet in the neutron-star merger GW170817
 - <https://www.nature.com/articles/s41586-018-0486-3>
 - <https://arxiv.org/pdf/1806.09693.pdf>
- A dynamically young and perturbed Milky Way disk
 - <https://www.nature.com/articles/s41586-018-0510-7>

Science – September 21, 2018

- Asteroseismic detection of latitudinal differential rotation in 13 Sun-like stars
 - <http://science.sciencemag.org/content/361/6408/1231>

Nature – September 27, 2018

- Planet that could be Spock's home
 - <https://phys.org/news/2018-09-newly-planet-spock-home-world.html>
 - <https://www.nature.com/articles/d41586-018-06725-2>
 - <https://academic.oup.com/mnras/article/480/2/2411/5056228>
- Japan's Hayabusa2 lands rovers on asteroid Ryugu
 - <https://www.nature.com/articles/d41586-018-06808-0>
 - <https://www.express.co.uk/news/science/1021999/japan-asteroid-mission-hayabusa-2-jaxa-ryugu-pictures-space-news>
- Quantum puzzle baffles physicists – twist on Schrödinger's cat
 - <https://www.nature.com/articles/d41586-018-06749-8>
 - <https://www.nature.com/articles/s41467-018-05739-8>
- Outbursts of luminous blue variable stars from variations in the helium opacity
 - <https://www.nature.com/articles/s41586-018-0525-0>

Science – September 28, 2018

- No cosmology/astrophysics news this issue

Nature – October 4, 2018

- Nearly all the sky is covered by Lyman-alpha emission around high redshift galaxies
 - <https://www.nature.com/articles/s41586-018-0564-6>
- A sense of crisis in the search for dark matter
 - <https://www.nature.com/articles/s41586-018-0542-z>

Science – October 5, 2018

- BepiColombo set to probe Mercury's mysteries – European-Japanese mission will examine idea that innermost planet formed out past Mars
 - <http://science.sciencemag.org/content/362/6410/11>
- Sky Rivers – Streams of stars falling into our galaxy trace its history and mass. They may even record encounters with clumps of dark matter
 - <http://science.sciencemag.org/content/362/6410/16>
- Exomoons
 - <http://advances.sciencemag.org/content/4/10/eaav1784>
- Saturn – Cassini
 - <http://science.sciencemag.org/content/362/6410/44>
 - <http://science.sciencemag.org/content/362/6410/eaat5434>
 - <http://science.sciencemag.org/content/362/6410/eaat1962>
 - <http://science.sciencemag.org/content/362/6410/eaat2027>
 - <http://science.sciencemag.org/content/362/6410/eaat3185>
 - <http://science.sciencemag.org/content/362/6410/eaat2236>
 - <http://science.sciencemag.org/content/362/6410/eaat2382>

Nature – October 11, 2018

- Nearly all the sky is covered by Lyman-alpha emission around high-redshift galaxies
 - <https://www.nature.com/articles/s41586-018-0564-6>
 - <https://arxiv.org/pdf/1810.00843.pdf>
- An evolving jet from a strongly magnetized accreting X-ray pulsar – high magnetic field neutron stars may also have jets
 - <https://www.nature.com/articles/s41586-018-0524-1>

Science – October 12, 2018

- NASA's next Mars rover aims to explore two promising sites – river delta in Jezero crater
 - <http://science.sciencemag.org/content/362/6411/139>
- A hot and fast ultra-stripped supernova that likely formed a compact neutron star binary
 - <http://science.sciencemag.org/content/362/6411/201>
 - <https://arxiv.org/pdf/1810.05181.pdf>

Scientific American – October 2018

- No cosmology/astrophysics news this issue