

Cosmology/Astrophysics News

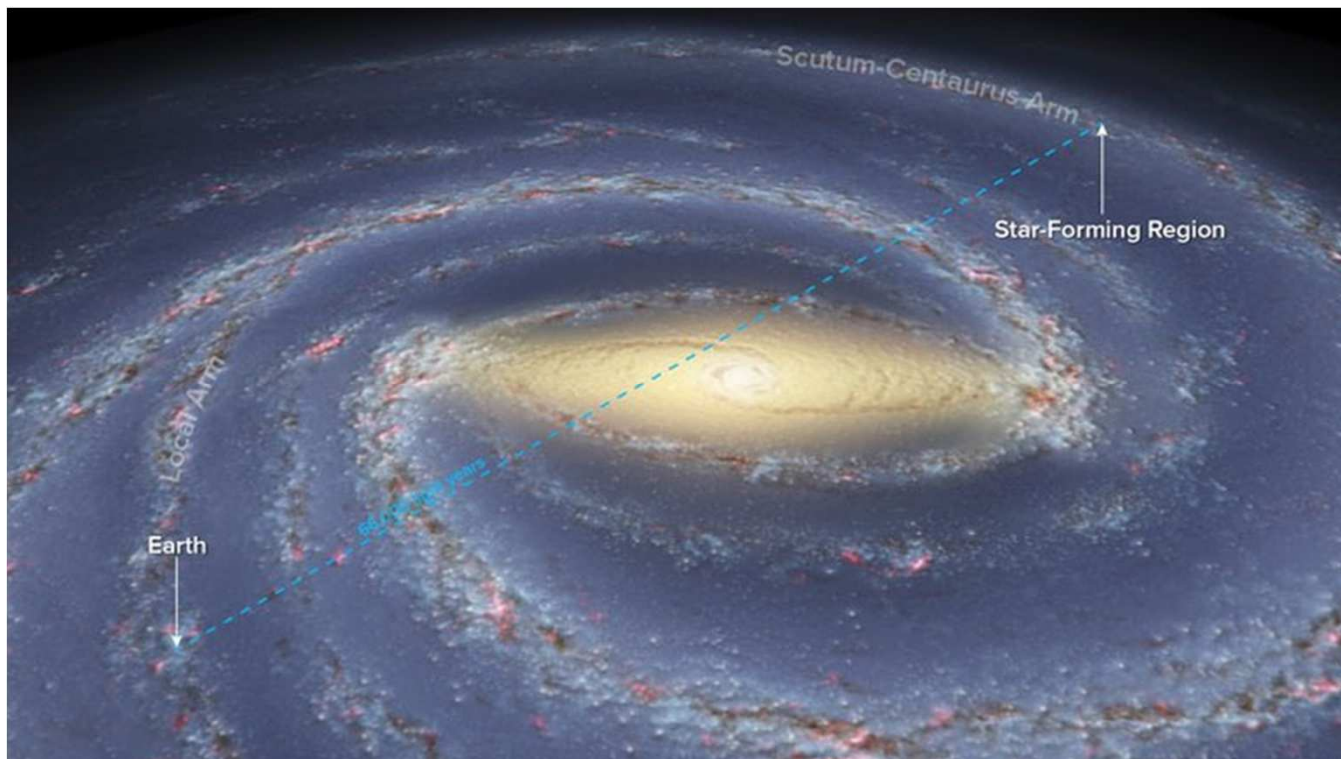


December 6, 2017
for Rose City Astronomers SIG

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

Science – October 13, 2017

- Most distant Milky Way outpost mapped – confirms 4 arms
 - <http://science.sciencemag.org/content/358/6360/160>
 - <http://science.sciencemag.org/content/358/6360/227>



Nature – October 19, 2017

- Asteroid 2012 TC4 passed within 44000km of Earth, will miss Earth in 2050
- Two dense stars collide producing signatures of gold and platinum
 - http://jupiter.chem.uoa.gr/thanost/papers/papers4/Nature_550%282017%29309.pdf
 - <https://www.nature.com/articles/nature24291>
 - <https://www.nature.com/articles/nature24290>
 - <https://www.nature.com/articles/nature24303>
 - <https://www.nature.com/articles/nature24453>
 - <https://www.nature.com/articles/nature24298>
 - <https://www.nature.com/articles/nature24153>

Science – October 20, 2017

- Neutron star collision August 17
 - <http://science.sciencemag.org/content/358/6361/282>
 - <http://science.sciencemag.org/content/early/2017/10/13/science.aag0321>

Nature – October 26, 2017

- Star TRAPPIST-1's magnetic field could be causing volcano eruptions on its planets
 - <http://www.nature.com/articles/s41550-017-0284-0>
- Hawking's 1966 PhD thesis:
 - <https://www.repository.cam.ac.uk/handle/1810/251038>
- Juno probe discovers surprising activity in the giant planet's interior
 - <https://www.nature.com/news/jupiter-s-stormy-winds-churn-deep-into-the-planet-1.22866>
- Photon pairs might act like a superconductor
 - https://www.nature.com/polopoly_fs/1.22868.1509967647!/menu/main/topColumns/topLeftColumn/pdf/nature.2017.22868a.pdf?origin=ppub

Science – October 27, 2017

- No cosmology news this issue
- No asymmetry found in electron yet

Nature – November 2, 2017

- Jupiter's auroras hint at complex magnetic field
 - <http://www.nature.com/articles/s41550-017-0262-6>
- Neutron star merger – kilonova – articles:
 - <https://www.nature.com/articles/nature24153>
 - <https://www.nature.com/articles/nature24291>
 - <https://www.nature.com/articles/nature24298>
 - <https://www.nature.com/articles/nature24290>
 - <https://www.nature.com/articles/nature24303>
 - <https://www.nature.com/articles/nature24453>
 - <https://www.nature.com/articles/nature24471>

Science – November 3, 2017

- How to detect life on exoplanet
 - <http://www.sciencemag.org/news/2017/11/earth-sized-alien-worlds-are-out-there-now-astronomers-are-figuring-out-how-detect-life>
- Interstellar object seen passing through solar system
 - <http://scim.ag/distantvisitor>



Nature – November 9, 2017

- How black-hole jets light up
 - <http://doi.org/cfvt>
- Dark matter hunt comes up empty
 - <https://www.scientificamerican.com/article/dark-matter-hunt-fails-to-find-the-elusive-particles/>
- Supernova-like event that lasted over unexplained 600 days
 - <https://www.nature.com/articles/551173a>
 - <https://www.nature.com/articles/nature24030>

Science – November 10, 2017

- No cosmology/astrophysics news this issue

Nature – November 16, 2017

- Dust belt and planets around Proxima Centauri
 - <https://arxiv.org/abs/1711.00578>
- Haze cools Pluto's atmosphere
 - <https://www.nature.com/articles/551302a>
 - <https://www.nature.com/articles/nature24465>

Science – November 17, 2017

- No cosmology / astrophysics this issue

Nature – November 23, 2017

- Exoplanet hunters rethink search for alien life
 - https://www.nature.com/polopoly_fs/1.23023.1511347838!/menu/main/topColumns/topLeftColumn/pdf/nature.2017.23023.pdf?origin=ppub

Science – November 24, 2017

- An earthly search for gold's cosmic origins – Facility for Rare Isotope Beams experiments
 - <http://science.sciencemag.org/content/358/6366/981>
- Silicon-carbide transistors that can survive heat and pressure for rover on Venus
 - <http://science.sciencemag.org/content/358/6366/984>

Nature – November 30, 2017

- No cosmology news this issue

Scientific American – November 2017

- The Zoomable Universe (from smallest to largest ... based on the book)

- <https://www.scientificamerican.com/store/books/the-zoomable-universe-an-epic-tour-through-cosmic-scale-from-almost-everything-to-nearly-nothing/>

Scientific American – December 2017

- Solar Storm Doomsday?

- <https://www.scientificamerican.com/article/future-solar-storms-could-cause-devastating-damage/>

- Pluto Revealed

- <http://www.nature.com/scientificamerican/journal/v317/n6/full/scientificamerican1217-40.html>

Miscellaneous

- The Big Dish – square kilometer array

- <https://spectrum.ieee.org/aerospace/astrophysics/far-from-radio-interference-the-square-kilometre-array-takes-root-in-south-africa-and-the-australian-outback>