

Cosmology/Astrophysics News

Dark sky near Cokeville
Wyoming near midnight.

September 19, 2018 for Rose City Astronomers SIG

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

Nature – July 19, 2018

- Planck data project releases final map of early universe
 - <https://www.cosmos.esa.int/web/planck/publications>
- High energy neutrino detected by IceCube probably from a blazar
 - <https://www.nature.com/articles/d41586-018-05703-y>
 - <https://www.nature.com/news/high-energy-cosmic-rays-come-from-outside-our-galaxy-1.22655>
- Ten new moons spotted orbiting Jupiter
 - <https://www.nature.com/articles/d41586-018-05725-6>

Science – July 20, 2018

- No cosmology/astrophysics news this issue

Nature – July 26, 2018

- Rugged terrain of Plutonian moon Charon
 - <http://www.sci-news.com/space/pluto-charon-global-mosaic-topographic-maps-06187.html>
 - <https://www.sciencedirect.com/science/article/pii/S0019103517306565>
- NASA aims for Sun's corona
 - <https://www.nasa.gov/content/goddard/parker-solar-probe-humanity-s-first-visit-to-a-star>
- Big Bang telescope finale is end of an era in cosmology – Planck mission
 - <https://www.nature.com/articles/d41586-018-05788-5>
- The formation of solar-neighborhood stars in two generations separated by 5 billion years
 - <https://www.nature.com/articles/s41586-018-0329-2>

Science – July 27, 2018

- Lake spied deep below polar ice cap on Mars
 - <http://science.sciencemag.org/content/361/6400/320>
- Fundamentals of numerical relativity for gravitational wave sources
 - <http://science.sciencemag.org/content/361/6400/366.full>
- Ghost dunes spotted on Mars
 - <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2018JE005613>

Nature – August 2, 2018

- Signs of buried lake on Mars tantalize scientists
 - <https://www.nature.com/articles/d41586-018-05795-6>
- Black hole provides test for Einstein's theory – measured star's redshift due to black hole at center of Milky Way
 - <https://www.nature.com/articles/d41586-018-05825-3>

Science – August 3, 2018

- A place in the sun – Parker probe
 - <http://science.sciencemag.org/content/361/6401/441>
- Liquid water on Mars
 - <http://science.sciencemag.org/content/early/2018/07/24/science.aau1829>
 - <http://science.sciencemag.org/content/early/2018/07/24/science.aar7268>
- A dust-enshrouded tidal disruption event with a resolved radio jet in a galaxy merger
 - <http://science.sciencemag.org/content/early/2018/06/13/science.aao4669>

Nature – August 9, 2018

- No cosmology/astrophysics news this issue

Science – August 10, 2018

- No cosmology/astrophysics news this issue

Nature – August 16, 2018

- Special relativity validated by neutrinos – using IceCube
 - <https://www.nature.com/articles/d41586-018-05931-2>

Science – August 17, 2018

- No cosmology/astrophysics news in this issue

Nature – August 23, 2018

- Atomic iron and titanium in the atmosphere of the exoplanet KELT-9b
 - <https://arxiv.org/pdf/1808.05653.pdf>
- Students looking at XMM-Newton satellite data found intense X-rays from a new type of astronomical object
 - <http://cds.aanda.org/2018-press-releases/1523-students-digging-into-data-archive-spot-mysterious-x-ray-source>

Science – August 24, 2018

- A population of merged white dwarfs
 - <https://academic.oup.com/mnrasl/article-abstract/479/1/L113/5039651>
- Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter
 - <http://science.sciencemag.org/content/early/2018/07/03/science.aat1450>

Nature – August 30, 2018

- Exoplanet's mass is 11 times Jupiter's measured by star's movement
 - <http://doi.org/cs83>
- Gravity measured with record precision
 - <https://www.nature.com/articles/d41586-018-06028-6>
 - <https://www.nature.com/articles/s41586-018-0431-5>
- The gravitationally unstable gas disk of a starburst galaxy 12 billion years ago
 - <https://www.nature.com/articles/s41586-018-0443-1>

Science – August 31, 2018

- No cosmology/astrophysics news in this issue

Nature – September 6, 2018

- Jupiter's magnetic field revealed by Juno spacecraft
 - <https://www.nature.com/articles/d41586-018-06095-9>
 - <https://www.nature.com/articles/s41586-018-0468-5>

Science – September 7, 2018

- Computational astrophysics for the future
 - <http://science.sciencemag.org/content/361/6406/979>
- Fast molecular outflow from a dusty star-forming galaxy in the early Universe
 - <http://science.sciencemag.org/content/361/6406/1016>

Nature – September 13, 2018

- Simulations suggest certain stars destroy their large planets
 - <http://iopscience.iop.org/article/10.3847/1538-3881/aad6e5/meta>

Scientific American – August 2018

- Is Dark Matter Real?

- <https://www.scientificamerican.com/article/is-dark-matter-real/>

Scientific American – September 2018

- No cosmology/astrophysics news this issue