

# Cosmology/Astrophysics News



Tarantula Nebula  
(30 Doradus) as  
seen from Peru

November 21, 2018 for Rose City Astronomers SIG

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

# Nature – October 18, 2018

- Jupiter's moon Europa may have ice spikes on surface
  - <http://doi.org/cvkg>
- BepiColombo mission to Mercury
  - <https://www.nature.com/articles/d41586-018-06996-9>
- Gravitational waves will enable precision measurements of Hubble constant
  - <http://doi.org/10.1038/s41586-018-0606-0>
- Exploring the Universe with matter waves
  - <https://www.nature.com/articles/d41586-018-07009-5>
  - <https://www.nature.com/articles/s41586-018-0605-1>
- Dispersion-brightness relation for fast radio bursts from a wide-field survey
  - <https://www.nature.com/articles/s41586-018-0588-y>

# Science – October 19, 2018

- NASA's asteroid explorer Dawn soon to go dark
  - <http://science.sciencemag.org/content/362/6412/275>
- Fast moving stars from other galaxies
  - <http://doi.org/10.1093/mnras/sty2592>



# Nature – October 25, 2018

- A galactic cluster is born
  - <http://doi.org/cvx9>
- BepiColombo launched October 19 on 7 year trip to Mercury
- How to build a moon base
  - <https://www.nature.com/articles/d41586-018-07107-4>
- A window onto the Sun's core
  - <https://www.csmonitor.com/Science/2014/0828/Scientists-open-a-window-to-sun-s-core-and-try-to-pry-it-open-further>
  - <https://www.nature.com/articles/s41586-018-0624-y>
- A two percent Hubble constant measurement from standard sirens within five years
  - <https://www.nature.com/articles/s41586-018-0606-0>

# Science – October 26, 2018

- No cosmology/astrophysics news this issue

# Nature – November 1, 2018

- Clues emerge to Martian methane mystery
  - <https://www.nature.com/articles/d41586-018-07177-4>
- Evidence of ancient Milky Way merger 10 billion years ago
  - <https://www.nature.com/articles/d41586-018-07193-4>
  - <https://www.nature.com/articles/s41586-018-0625-x>

# Science – November 2, 2018

- Cosmic law renamed to expand credit – Hubble-Lemaitre Law
  - <http://science.sciencemag.org/content/362/6414/504>

# Nature – November 8, 2018

- Cow supernova
  - <https://www.nature.com/articles/d41586-018-07260-w>
- A population of accreting black holes with hidden mergers
  - <https://www.nature.com/articles/s41586-018-0652-7>



# Science – November 9, 2018

- No cosmology/astrophysics news this issue

# Nature – November 15, 2018

- 3\*Earth mass exoplanet around Barnard's Star
  - <https://www.nature.com/articles/d41586-018-07328-7>
  - <https://www.nature.com/articles/s41586-018-0677-y>

# Scientific American – November 2018

- Back in [cosmic] Time
  - <https://www.nature.com/scientificamerican/journal/v319/n5/full/scientificamerican1118-40.html>
  - [https://www.nature.com/scientificamerican/journal/v319/n5/box/scientificamerican1118-40\\_BX1.html](https://www.nature.com/scientificamerican/journal/v319/n5/box/scientificamerican1118-40_BX1.html)
  - [https://www.nature.com/scientificamerican/journal/v319/n5/box/scientificamerican1118-40\\_BX2.html](https://www.nature.com/scientificamerican/journal/v319/n5/box/scientificamerican1118-40_BX2.html)
  - [https://www.nature.com/scientificamerican/journal/v319/n5/box/scientificamerican1118-40\\_BX3.html](https://www.nature.com/scientificamerican/journal/v319/n5/box/scientificamerican1118-40_BX3.html)

# Miscellaneous

- The first miner on Mars
  - <https://spectrum.ieee.org/aerospace/robotic-exploration/how-nasa-will-use-robots-to-create-rocket-fuel-from-martian-soil>
- Interesting lecture on particles and what is next from Large Hadron Collider (LHC) in Cern
  - <https://youtu.be/edvdzh9Pggg>
- Quantum physics lecture:
  - <https://youtu.be/q7v5NtV8v6l>