

# Cosmology/Astrophysics News

NGC 891

October 23, 2019 for Rose City Astronomers SIG

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

# Nature – September 19, 2019

- Giant gas bubbles around Milky Way's black hole
  - <https://www.nature.com/articles/d41586-019-02726-x>
- Galaxy with hiccups – from matter going into black hole
  - <http://webcache.googleusercontent.com/search?q=cache:hDAuKfg9TzUJ:nature.webvpn.ustc.edu.cn/articles/d41586-019-02652-y+&cd=2&hl=en&ct=clnk&gl=us>
  - <http://nature.webvpn.ustc.edu.cn/articles/s41586-019-1556-x>

# Science – September 20, 2019

- Dust from asteroid breakup veiled and cooled Earth 466 million years ago
  - <https://science.sciencemag.org/content/365/6459/1230>

# Nature – September 26, 2019

- Neutrino mass measured at most 1.1 electron volts
  - <https://www.nature.com/articles/d41586-019-02786-z>
- Solid hydrogen – might explain Jupiter's magnetic field
  - <https://www.nature.com/articles/d41586-019-02811-1>
  - <https://www.nature.com/articles/s41586-019-1565-9>

# Science – September 27, 2019

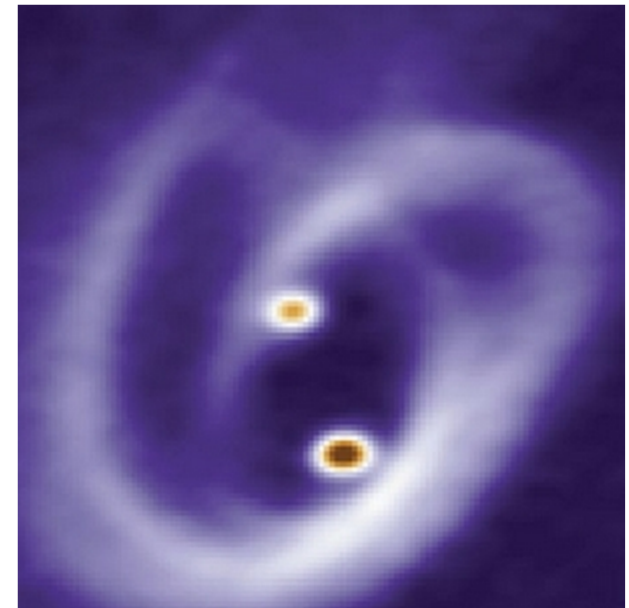
- Jupiter size exoplanet around red dwarf GJ3512 spurs rethinking planet formation
  - <https://science.sciencemag.org/content/365/6460/1382>
  - <https://science.sciencemag.org/content/365/6460/1441>

# Nature – October 3, 2019

- 6 galaxy black holes suddenly developed voracious appetites
  - <https://iopscience.iop.org/article/10.3847/1538-4357/ab3a38>

# Science – October 4, 2019

- Filaments in intergalactic medium now detected – “Cosmic web”
  - <https://science.sciencemag.org/content/366/6461/31.summary>
  - <https://science.sciencemag.org/content/366/6461/97>
- Gas flow and accretion via spiral streamers and circumstellar disks in a young binary protostar
  - <https://science.sciencemag.org/content/366/6461/90>



# Nature – October 10, 2019

- Earliest known protocluster of galaxies found
  - <https://iopscience.iop.org/article/10.3847/1538-4357/ab2cd5>
- Nobel prizes in physics – exoplanets, dark matter...
  - <https://www.nature.com/articles/d41586-019-02964-z>
- Stellar mergers as the origin of magnetic massive stars
  - <https://www.nature.com/articles/s41586-019-1621-5>



# Science – October 11, 2019

- Saturn has 82 moons, Jupiter has 79
  - Naming contest:  
<https://carnegiescience.edu/NameSaturnsMoons>
- Radio telescope in France “NenuFAR” to look at exoplanet interiors
  - <https://science.sciencemag.org/content/366/6462/169>
- The low density and magnetization of a massive galaxy halo exposed by a fast radio burst
  - <https://science.sciencemag.org/content/366/6462/231>

# Nature – October 17, 2019

- Meridional flows in the disk around a young star
  - <https://www.nature.com/articles/s41586-019-1642-0>

# Miscellaneous

- Next meeting November 20, 2019
- Making a radio telescope for \$150
  - <https://spectrum.ieee.org/geek-life/hands-on/track-the-movement-of-the-milky-way-with-this-diy-radio-telescope>