

Cosmology/Astrophysics News

Tarantula Nebula

February 21, 2018
for Rose City Astronomers SIG

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

Science – January 12, 2018

- Cliffs of water ice spied on Mars – Exposed subsurface ice sheets in the Martian mid-latitudes
 - <http://science.sciencemag.org/content/359/6372/145>
 - <http://science.sciencemag.org/content/359/6372/199>
- Detecting the building blocks of aromatics – benzonitrile in interstellar medium
 - <http://science.sciencemag.org/content/359/6372/156>
 - <http://science.sciencemag.org/content/359/6372/202>

Nature – January 18, 2018

- Dark Energy Survey releases first 3 years of data
 - <https://www.darkenergysurvey.org/>
- NASA test proves pulsars can function as a celestial GPS
 - <https://www.nature.com/articles/d41586-018-00478-8>
- Earth's artificial night lighting is a problem not only for astronomers
 - <https://www.nature.com/articles/d41586-018-00665-7>
- Black-hole-regulated star formation in massive galaxies
 - higher mass black holes quench star formation
 - <https://www.nature.com/articles/nature24999>
- Large granulation cells on the surface of the giant star π Gruis
 - <https://www.nature.com/articles/nature25001>

Science – January 19, 2018

- Newborn exoplanet eyed for moons and rings – beta Pictoris b – 63 light years away – small satellites viewing...
 - <http://science.sciencemag.org/content/359/6373/258>

Nature – January 25, 2018

- Challenge to the Late Heavy Bombardment theory 4 billion years ago
 - <https://www.nature.com/articles/d41586-018-01074-6>
- A beacon at the dawn of the Universe – most distant quasar ULASJ1342+0928 redshift of 7.54
 - <https://www.nature.com/articles/d41586-018-00818-8>
 - <https://www.nature.com/articles/nature25180>
- Orbital misalignment of the Neptune-mass exoplanet GJ 436b with the spin of its cool star
 - <https://www.nature.com/articles/nature24677>

Science – January 26, 2018

- No cosmology/astrophysics news this issue

Nature – February 1, 2018

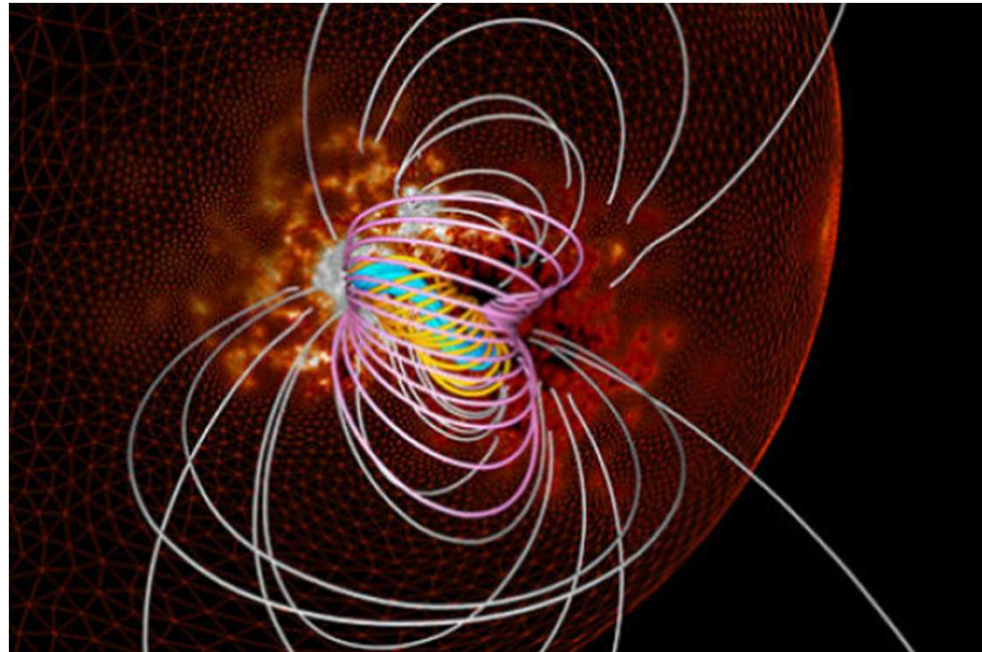
- Strong disk winds traced throughout outbursts in black-hole X-ray binaries – studying accretion process
 - <https://www.nature.com/articles/nature25159>
- A large oxygen-dominated core from the seismic cartography of a pulsating white dwarf
 - <https://www.nature.com/articles/nature25136>

Science – February 2, 2018

- Galaxy motions cause trouble for cosmology – at odds with dark matter models – galaxies around Centaurus A
 - <http://science.sciencemag.org/content/359/6375/520>
 - <http://science.sciencemag.org/content/359/6375/534>

Nature – February 8, 2018

- A chirp, a roar and a whisper – more about neutron star merger GW170817
 - <https://www.nature.com/articles/d41586-018-01570-9>
 - <https://www.nature.com/articles/nature25452>
- Magnetic cage and rope as the key for solar eruptions
 - <https://www.nature.com/articles/nature24671>



Science – February 9, 2018

- No cosmology/astrophysics news this issue
- SpaceX Falcon Heavy rocket test successful

Nature – February 15, 2018

- Parsec-scale optical jet from a massive young star in the Large Magellanic Cloud
 - <https://arxiv.org/ftp/arxiv/papers/1801/1801.08147.pdf>

Scientific American – February 2018

- The first monster black holes – how they could grow so big so early
 - <https://www.scientificamerican.com/article/the-puzzle-of-the-first-black-holes/>