



Cosmology/Astrophysics News

November 19, 2014
for Rose City Astronomers SIG

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

Science – October 17, 2014

- Looking closer at the Sun, NASA IRIS satellite observing interface between sun's corona and photosphere
 - <http://www.sciencemag.org/content/346/6207/305.summary>
 - <http://www.sciencemag.org/content/346/6207/315.short>
 - <http://dx.doi.org/10.1126/science.1255732>
 - <http://dx.doi.org/10.1126/science.1255711>
 - <http://dx.doi.org/10.1126/science.1255724>
 - <http://dx.doi.org/10.1126/science.1255726>
 - <http://dx.doi.org/10.1126/science.1255757>
- Laboratory formation of a scaled protostellar jet by coaligned poloidal magnetic field
 - <http://www.sciencemag.org/content/346/6207/325.short>
- Constraints on Mimas' interior from Cassini ISS libration measurements – moon may have ocean inside...
 - <http://www.sciencemag.org/content/346/6207/322.short>

Nature – October 23, 2014

- Solar atmosphere is a hotbed of activity – more IRIS results
 - [Http://doi.org/wfc](http://doi.org/wfc)
 - [Http://doi.org/wfd](http://doi.org/wfd)
 - [Http://doi.org/wff](http://doi.org/wff)
- Beyond Pluto
 - PT1 is best candidate of 3 for New Horizons spacecraft after Pluto, in late 2018 or early 2019
- Hurling comets around a planetary nursery
 - <http://www.nature.com/nature/journal/v514/n7523/full/514440a.html>
- Characterizing and predicting the magnetic environment leading to solar eruptions
 - <http://www.nature.com/nature/journal/v514/n7523/full/nature13815.html>
- Sun's stroke keeps Kepler online
 - <http://www.nature.com/news/sun-s-stroke-keeps-kepler-online-1.16195>

Science – October 24, 2014

- Siding Spring comet snapped
 - <http://www.sciencemag.org/content/346/6208/402.summary>
 - <http://go.nature.com/psvju9>



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Nature – October 30, 2014

- Secret ingredient exposed – magnetic fields are key to accretion around young stars
 - <http://www.nature.com/nature/journal/v514/n7524/full/nature13932.html>
 - <http://www.nature.com/nature/journal/v514/n7524/full/nature13850.html>

Scientific American – November 2014

- Pluto and Beyond

- Rosetta spacecraft

- <http://www.scientificamerican.com/article/kuiper-belt-missions-could-reveal-the-solar-systems-origins/>

Science – October 31, 2014

- Early accretion of water in the inner solar system from a carbonaceous chondrite-like source
 - <http://www.sciencemag.org/content/346/6209/623.short>

Nature – November 6, 2014

- Monster star found hiding in plain sight – W49nrl might be 90 to 250 solar masses
 - <http://www.nature.com/nature/journal/v515/n7525/full/515042a.html>
- Turbulent heating in galaxy clusters brightest in X-rays
 - Studying cooling rate of intracluster medium
 - <http://www.nature.com/nature/journal/v515/n7525/full/nature13830.html>
- Suppression of cooling by strong magnetic fields in white dwarf stars – observing WD 1953-011
 - <http://www.nature.com/nature/journal/v515/n7525/full/nature13836.html>

Science – November 7, 2014

- A glimpse of cosmic dawn – Murchison Widefield Array in Australia to detect ionization in early universe
 - <http://www.sciencemag.org/content/346/6210/688>
- The other half of the universe? - dim stars stripped from galaxies?
 - <http://www.sciencemag.org/content/346/6210/696.short>
 - <http://www.sciencemag.org/content/346/6210/732>
- Out with the WIMPs In with the SIMPs? (to explain dark matter?)
 - <http://news.sciencemag.org/physics/2014/10/dark-matter-out-wimps-simps>
 - <http://journals.aps.org/prl/abstract/10.1103/PhysRevLett.113.171301>

Nature – November 13, 2014

- Amateurs spot unusual exoplanet (PH3c in Kepler data using crowdsourcing)
 - Astrophys. J. 795, 167 (2014)
 - <http://arxiv.org/abs/1410.8114>
- The expanding fireball of Nova Delphini 2013
 - <http://www.nature.com/nature/journal/v515/n7526/full/nature13834.html>

Science – November 14, 2014

- Don't have it yet