

M101
Pinwheel Galaxy

Cosmology/Astrophysics News

March 18, 2015
for Rose City Astronomers SIG

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

Science – February 13, 2015

- No cosmology news this issue

Nature – February 19 , 2015

- ESA spaceplane tested the Intermediate eXperimental Vehicle (IXV) Feb 11th.
- NOA's deep space Climate Observatory (DSCOVR) launched Feb 11 by SpacesX, 1.5 million KM above Earth.
- Mars giant mystery plume
 - <http://www.nature.com/nature/journal/v518/n7540/full/nature14162.html>
- A lithium-rich stellar explosion – nova seen for first time creating radioactive Be decaying to Li
 - <http://www.nature.com/nature/journal/v518/n7539/full/nature14161.html>

Science – February 20, 2015

- Interstellar movie inspires science
 - <http://scim.ag/Interstellsci>
- Dawn probe to look for a habitable ocean on Ceres
 - Bright spots may be signs of ice
 - <http://www.sciencemag.org/content/347/6224/813.summary>
- Why the “Y” in Venusian sky?
 - <http://www.sciencemag.org/content/347/6224/837.6>
- Black hole feedback in the luminous quasar PDS456
 - <http://arxiv.org/abs/1502.06636>

Nature – February 26, 2015

- Dwarf planets: A Tale of Two Missions (Dawn to Ceres & New Horizons to Pluto)
 - <http://www.nature.com/news/a-tale-of-two-dwarf-planets-1.16981>
- A giant in the young Universe
 - An ultraluminous quasar with a 12 billion solar mass black hole at red shift 6.30
 - <http://www.nature.com/nature/journal/v518/n7540/full/518490b.html>
 - <http://www.nature.com/nature/journal/v518/n7540/full/nature14241.html>

Science – February 27, 2015

- Plumes on Europa tease NASA mission planners
 - <http://www.sciencemag.org/content/347/6225/932.summary>
- Understanding particle acceleration in astrophysical plasmas (eg Crab nebula)
 - <http://www.sciencemag.org/content/347/6225/944.summary>

Scientific American – March 2015

- Ode to the Messenger – NASA's Mercury completes 4 year mission
 - <http://www.scientificamerican.com/article/nasa-s-messenger-mission-to-mercury-ends/>
- Oceans from the Skies
 - <http://www.nature.com/scientificamerican/journal/v312/n3/full/scientificamerican0315-36.html>

Nature – March 5, 2015

- The double-degenerate, super-Chandrasekhar nucleus of the planetary nebula Henize 2-428
 - <http://www.nature.com/nature/journal/v519/n7541/full/nature14124.html>

Science – March 6, 2015

- Einstein's Vision
 - <http://www.sciencemag.org/content/347/6226/1082.summary>
- To Catch a Wave
 - <http://www.sciencemag.org/content/347/6226/1084.summary>
- The dark lab
 - <http://www.sciencemag.org/content/347/6226/1089.summary>
- General Relativity: The Comic Book
 - <http://www.sciencemag.org/content/347/6226/1094.summary>
- Drop test
 - <http://www.sciencemag.org/content/347/6226/1096.summary>
- The dark side of cosmology: Dark matter and dark energy
 - <http://www.sciencemag.org/content/347/6226/1100.abstract>
- A century of general relativity: Astrophysics and cosmology
 - <http://www.sciencemag.org/content/347/6226/1103.abstract>
- Beyond general relativity
 - <http://www.sciencemag.org/content/347/6226/1078.1.summary>

Nature – March 12, 2015

- LHC 2.0
 - <http://www.nature.com/news/lhc-2-0-a-new-view-of-the-universe-1.17081>
- Enceladus' hot springs – first evidence of hydrothermal activity beyond Earth
 - <http://www.nature.com/news/hints-of-hot-springs-found-on-saturnian-moon-1.17072>
 - <http://www.nature.com/nature/journal/v519/n7542/full/nature14262.html>
- Regulation of star formation in giant galaxies by precipitation, feedback and conduction
 - <http://www.nature.com/nature/journal/v519/n7542/full/nature14167.html>