

## Science – September 12, 2014

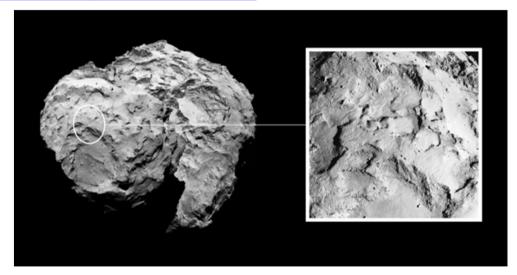
- NASA extends 7 missions: Cassini, Lunar & Mars Reconnaissance Orbiters, Mars Opportunity and Curiosity rovers, Mars Express, Mars Odyssey
  - http://news.sciencemag.org/funding/2014/09/nasa-extends-seven-planetary-missions
- Chaotic dynamics of stellar spin in binaries and the production of misaligned hot Jupiters
  - http://www.sciencemag.org/content/345/6202/1317.abstract
- Rapid growth of seed black holes in the early universe by supra-exponential accretion
  - http://arxiv.org/abs/1408.1718

# Nature – September 18, 2014

- Landing site chosen on head of comet 67P/Churyumov-Gerasimenko for Rosetta's probe "Philae"
  - http://www.nature.com/news/lander-to-aim-for-comet-s-head-1.15936
- Indian Mars prepares for orbit
  - Due to start orbiting Sept 24
  - http://www.nature.com/news/indian-mars-craft-prepares-for-orbit-1.15939
- Giant black hole in a stripped galaxy
  - Sugests the system is the stripped nucleus of a once larger galaxy
  - http://www.nature.com/nature/journal/v513/n7518/full/513322a.html
- Section of articles on exoplanets: <a href="http://nature.com/exoplanets">http://nature.com/exoplanets</a>
  - Doppler spectroscopy as a path to the detection of Earth-like planets
    - http://www.nature.com/nature/journal/v513/n7518/full/nature13780.html
  - Advances in exoplanet science from Kepler
    - http://www.nature.com/nature/journal/v513/n7518/full/nature13781.html
  - Highlights in the study of exoplanets
    - <a href="http://www.nature.com/nature/journal/v513/n7518/full/nature13782.html">http://www.nature.com/nature/journal/v513/n7518/full/nature13782.html</a>
  - The role of space telescopes in the characterization of transiting exoplanets
    - <a href="http://www.nature.com/nature/journal/v513/n7518/full/nature13783.html">http://www.nature.com/nature/journal/v513/n7518/full/nature13783.html</a>
  - Instrumentation for the detection and characterization of exoplanets
    - <a href="http://www.nature.com/nature/journal/v513/n7518/full/nature13784.html">http://www.nature.com/nature/journal/v513/n7518/full/nature13784.html</a>
- A massive galaxy in its core formation phase three billion years after the big bang
  - http://www.nature.com/nature/journal/v513/n7518/full/nature13616.html
- A supermassive black hole in an ultra-compact dwarf galaxy
  - http://www.nature.com/nature/journal/v513/n7518/abs/nature13762.html

# Science – September 19, 2014

- Rosetta lander aims for site "J"
  - http://scim.ag/Rosettaland



- All eyes on shooting stars
  - Cameras used to locate meteorite landing sites
  - http://www.sciencemagazinedigital.org/sciencemagazine/19 september 2014?folio=1434#pg18

## Nature – September 25, 2014

- Arrival at Mars NASA's Maven (Mars Atmospheric and Volatile Evolution) spacecraft entered orbit September 21
  - http://go.nature.com/px22mw
- Window on a watery world HAT-P-11b
  - Signs of water on a Neptune sized planet
  - http://www.nature.com/nature/journal/v513/n7519/full/513493a.html
  - <u>http://go.nature.com/RE3C1r</u>
- Early turbulent mixing as the origin of chemical homogeneity in open star clusters
  - http://www.nature.com/nature/journal/v513/n7519/full/nature13662.html

#### Scientific American – September 2014

Nothing noteworthy for this issue

#### Scientific American – October 2014

- Earth's Impending Magnetic Flip
  - http://www.scientificamerican.com/article/earth-s-impending-magnetic-flip/
- A Beacon from the Big Bang
  - http://www.nature.com/scientificamerican/journal/v311/n4/full/scientificamerican1014-58.html
  - Gravity waves... south pole observation story

## Science – September 26, 2014

- Evidence for cosmic inflation wanes
  - Gravity waves no, dust yes
  - http://www.sciencemag.org/content/345/6204/1547.summary
- NOvA's shining moment
  - Will send neutrinos from Fermilab to NOvA detector in Minnesota
  - http://www.sciencemag.org/content/345/6204/1555.summary
- Evidence for global electron transportation in the jovian inner magnetosphere
  - May be responsible for exiting whistler-mode waves
  - http://www.sciencemag.org/content/345/6204/1581.short
- Detection of a branched alkyl molecule in the interstellar medium: isopropyl cyanide
  - May mean that interstellar space also contains amino acids.. Needed for life..
  - http://www.sciencemag.org/content/345/6204/1584.short
- The ancient heritage of water ice in the solar system
  - Study suggests water is likely available in all nascent planetary systems
  - http://www.sciencemag.org/content/345/6204/1590.short

### Nature – October 2, 2014

- NASA's Kepler back to work
  - Steadied by balancing frame against solar wind
- To catch a cosmic ray
  - In 10 years still has not found source
  - http://www.nature.com/news/astronomy-to-catch-a-cosmic-ray-1.16037
- Not just a storm in a teacup
  - Titan's south pole cloud is hydrogen cyanide
  - http://www.nature.com/nature/journal/v514/n7520/full/514040a.html
  - http://www.nature.com/nature/journal/v514/n7520/full/nature13789.html
- The age of the quasars
  - http://www.nature.com/nature/journal/v514/n7520/full/514043a.html
- Structure and evolution of the lunar Procellarum region as revealed by GRAIL gravity data
  - http://www.nature.com/nature/journal/v514/n7520/full/nature13697.html

## Science – October 3, 2014

- Intruder from the Oort cloud will graze Mars
  - http://news.sciencemag.org/space/2014/10/intruder-oort-cloud-will-graze-mars

### Nature – October 9, 2014

- 12 meter radio telescope on Kitt Peak (Arizona) has begun observations, prototype for Atacama Large Millimeter/Submillimeter Array (ALMA)
- Rivals join forces to nail down Big G
  - Only known to 3 digits for certain... experiments diverge
  - http://www.nature.com/news/gravity-rivals-join-forces-to-nail-down-big-g-1.16090
- The big reboot LHC Large Hadron Collider coming back to life
  - http://www.nature.com/news/large-hadron-collider-the-big-reboot-1.16095
- Small field with a large impact
  - Nature of Ultraluminous X-ray sources still unclear
  - http://www.nature.com/nature/journal/v514/n7521/full/514171a.html
  - http://www.nature.com/nature/journal/v514/n7521/full/nature13730.html
  - http://www.nature.com/nature/journal/v514/n7521/full/nature13791.html
- Mass of a top (quark)
  - http://www.nature.com/nature/journal/v514/n7521/full/514174a.html

### Science – October 9, 2014

- Do young star clusters follow the law?
  - http://www-bcf.usc.edu/~matthedd/PAPERS/dines science ec.pdf
- A class of warm Jupiters with mutually inclined, apsidally misaligned close friends
  - http://www.sciencemag.org/content/346/6206/212.short
- A local clue to the reionization of the universe
  - http://www.sciencemag.org/content/346/6206/216.short

### Nature – October 16, 2014

- Space-weather hub
  - http://go.nature.com/yuiplt
- How tiny galaxies form stars
  - http://www.nature.com/nature/journal/v514/n7522/full/514310a.html
- Inefficient star formation in extremely metal poor galaxies
  - http://www.nature.com/nature/journal/v514/n7522/full/nature13820.html
- Binary orbits as the driver of gamma-ray emission and mass ejection in classical novae
  - http://www.nature.com/nature/journal/v514/n7522/full/nature13773.html

# Science – October 17, 2014

• I don't have it yet