Cosmology/Astrophysics News

Possible planet spotted in Whirlpool galaxy

October 2021 for Rose City Astronomers SIG.

http://101iq.com/RCA

Science – October 1, 2021

No cosmology/astrophysics news this issue

Nature – October 7, 2021

- Fine-regolith production on asteroids controlled by rock porosity
 - https://www.nature.com/articles/s41586-021-03816-5

Science – October 8, 2021

- Asteroid tour could reveal solar system's chaotic origin – NASA Lucy mission
 - https://www.science.org/content/article/tour-jupiter-s-trojans-could-reveal-solar-system-s-chaotic-origin
- A multiplanet system with a sub-Earth
 - https://www.aanda.org/articles/aa/abs/2021/09/aa40728-21/aa40728-21.html
- Satellite swarms threatening the night sky
 - https://www.science.org/content/article/satellite-swarms-are-threatening-night-sky-creating-new-zone-environmental-conflict

Nature – October 14, 2021

- Galaxies merged to grow in the early universe
 - https://www.aanda.org/highlights/2320-the-alpine-alma-cii-survey-the-contribution-of-major-mergers-to-the-galaxy-mass-assembly-at-z-5
- Venus might never have been habitable
 - https://www.nature.com/articles/d41586-021-02720-2
 - https://www.nature.com/articles/s41586-021-03873-w
- A bimodal burst energy distribution of a repeating fast radio burst source
 - https://arxiv.org/pdf/2107.08205.pdf
- A Jovian analogue orbiting a white dwarf star
 - https://arxiv.org/pdf/2110.07934.pdf

Science – October 15, 2021

- A compositional link between rocky exoplanets and their host stars
 - https://arxiv.org/pdf/2102.12444.pdf

Nature – October 21, 2021

- Carbon monoxide gas produced by a giant impact in the inner region of a young system
 - https://www.nature.com/articles/s41586-021-03872-x

Science – October 22, 2021

No cosmology/astrophysics news this issue

Nature – October 28, 2021

- A mysterious object is beaming radio waves into the Milky Way
 - https://www.nature.com/articles/d41586-021-02836-5
- Call for a framework for reporting evidence for life beyond Earth
 - https://www.nature.com/articles/s41586-021-03804-9
- A solar C/O and sub-solar metallicity in a hot Jupiter atmosphere
 - https://www.nature.com/articles/s41586-021-03912-6

Science – October 29, 2021

No cosmology/astrophysics news this issue

Miscellaneous

- Next in-person meeting will be when pandemic is over. Please stay safe!
- In the meantime, I will post this monthly news possibly with zero or more videos to watch, as for example, these:
- https://www.nasa.gov/mission pages/chandra/images/chandra-sees-evidence-for-possible-planet-in-another-galaxy.html
- https://www.youtube.com/watch?v=RQv5CVELG3U
- https://www.youtube.com/watch?v=vb0UnogKQeo
- https://www.youtube.com/watch?v=m515z9Yh3DY
- https://www.youtube.com/watch?v=Rqv0588AmVw