



Cosmology/Astrophysics News

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October 2024 for Rose City Astronomers SIG

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

Nature – October 3, 2024

- Mars's induced magnetosphere can degenerate
 - <https://www.nature.com/articles/s41586-024-07959-z>
- Space radiation measurements during the Artemis I lunar mission
 - <https://www.nature.com/articles/s41586-024-07927-7>
- Dwarf planet Ceres hosts a frozen ocean that is almost pure water ice
 - <https://www.nature.com/articles/s41550-024-02350-4>

Science – October 4, 2024

- No cosmic sign of dark photon
 - <https://www.science.org/content/article/no-sign-ghostly-dark-photons-afterglow-big-bang>
- The Sun's varying coronal magnetic field
 - <https://www.science.org/doi/10.1126/science.ado2993>

Nature – October 10, 2024

- No cosmology/astrophysics this issue

Science – October 11, 2024

- Early universe, Too much ultraviolet light for reionization
 - <https://academic.oup.com/mnras/article/535/1/L37/7759714>

Nature – October 17, 2024

- The photons from hell next door
 - <https://www.nature.com/articles/d41586-024-03191-x>
- Most meteorites come from young families
 - <https://www.nature.com/articles/s41586-024-08006-7>
- The Massalia asteroid family as the origin of ordinary L chondrites
 - <https://www.nature.com/articles/s41586-024-08007-6>

Science – October 18, 2024

- Most meteorites traced to three space crackups
 - <https://www.science.org/content/article/most-meteorites-traced-three-space-crackups>

Nature – October 24, 2024

- NASA mission launched to seek hints of life on Jupiter's moon Europa
 - <https://www.nature.com/articles/s41578-024-00749-z>
 - <https://www.nature.com/articles/d41586-024-03225-4>
- Quasi-periodic X-ray eruptions years after a nearby tidal disruption event
 - <https://www.nature.com/articles/s41586-024-08023-6>
- Two waves of massive stars running away from the young cluster R136
 - <https://www.nature.com/articles/s41586-024-08013-8>

Science – October 25, 2024

- Dots in a murky sky
 - <https://www.science.org/doi/10.1126/science.adt1251>

Nature – October 31, 2024

- Selection bias obfuscates the discovery of fast radio burst sources
 - <https://www.nature.com/articles/s41586-024-08065-w>
- The cool brown dwarf Gliese 229B is a close binary
 - <https://www.nature.com/articles/s41586-024-08064-x>

Miscellaneous

- I will post this monthly news possibly with zero or more videos and links to watch, as for example, these:
 - <https://www.youtube.com/watch?v=BX02u39tNS8>
 - <https://www.youtube.com/watch?v=W4SnKp4BhP4>
 - <https://www.youtube.com/watch?v=50bcjqEJuoc>
 - <https://www.youtube.com/watch?v=0QGAFyrEing>