

Cosmology/Astrophysics News



NGC6960 Witch's Broom

October 2025 for Rose City Astronomers SIG

an Meyers

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

Nature – October 2, 2025

- How the Milky Way churned up Earth's crust
 - <https://journals.aps.org/prresearch/abstract/10.1103/98c3-d9j2>
- The Moon is rusting – thanks to wind blown all the way from Earth
 - <https://www.nature.com/articles/d41586-025-03051-2>
- Stratified wind from a super-Eddington X-ray binary is slower than expected
 - <https://www.nature.com/articles/s41586-025-09495-w>
- Late fluid flow in a primitive asteroid revealed by Lu-Hf isotopes in Ryugu
 - <https://www.nature.com/articles/s41586-025-09483-0>

Science – October 2, 2025

- A black hole in an early little red dot
 - <https://doi.org/10.3847/2041-8213/ade789>

Nature – October 9, 2025

- Southward impact excavated magma ocean at the lunar South Pole – Aitkin basin
 - <https://www.nature.com/articles/s41586-025-09582-y>

Science – October 9, 2025

- Long-lived gamma ray burst puzzles astronomers
 - <https://www.science.org/content/article/long-lived-gamma-ray-burst-could-signal-new-kind-cosmic-catastrophe>
- Constraining exoplanet interiors using observations of their atmospheres
 - <https://www.science.org/doi/10.1126/science.ads3360>

Nature – October 16, 2025

- No cosmology/astrophysics this issue

Science – October 16, 2025

- No cosmology/astrophysics this issue

Nature – October 23, 2025

- Giant black holes weren't the stars of reionization
 - <https://www.nature.com/articles/s41550-025-02676-7>
- What are the mysterious little red dots that are baffling astronomers?
 - <https://www.nature.com/articles/d41586-025-03352-6>
- Is there a smoking gun test for quantum gravity?
 - <https://www.nature.com/articles/d41586-025-03132-2>
- Classical theories of gravity produce entanglement
 - <https://www.nature.com/articles/s41586-025-09595-7>
- Joint neutrino oscillation analysis from the T2K and NOvA experiments
 - <https://www.nature.com/articles/s41586-025-09599-3>

Science – October 23, 2025

- No cosmology/astrophysics this issue

Nature – October 30, 2025

- Surprise meteorite debris uncovered on Moon's far side
 - <https://www.nature.com/articles/d41586-025-03439-0>
- How to understand exoplanets – space scientists call on lab-based chemists to help
 - <https://www.nature.com/articles/d41586-025-03478-7>
- To make water, exoplanets might just need some pressure
 - <https://www.nature.com/articles/d41586-025-03214-1>
 - <https://www.nature.com/articles/s41586-025-09630-7>

Science – October 30, 2025

- Argentina's move to woo Trump has derailed South America's largest radio telescope

- <https://www.science.org/content/article/argentina-s-move-woo-trump-has-derailed-south-america-s-largest-radio-telescope>

- The End of Everything (Astrophysically speaking)

- <https://www.science.org/doi/10.1126/science.aec7043>

- Simulated flybys form galaxy bars

- https://www.aanda.org/articles/aa/full_html/2025/10/aa55503-25/aa55503-25.html

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=V21YRa5Sy9M>
 - <https://www.youtube.com/watch?v=lvye51d5Vis>
 - <https://www.youtube.com/watch?v=q8YxmhfFaPQM>
 - <https://www.youtube.com/watch?v=fLOgS7F5Bo>