

A photograph of the Blue Ghost spacecraft in orbit around the Moon. The spacecraft is a small, boxy satellite with a gold-colored thermal blanket and a blue antenna. It is positioned in the lower right quadrant of the frame. The Moon's surface, covered in numerous impact craters, dominates the left side of the image. The background is the dark, star-filled sky of space.

Cosmology/Astrophysics News

Blue Ghost spacecraft
around other side of Moon

February 2025 for Rose City Astronomers SIG

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

Nature – February 6, 2025

- NASA's most prolific planet hunter so far – Kepler
 - <https://www.nature.com/articles/d41586-025-00295-w>
- IO's tidal response precludes a shallow magma ocean
 - <https://www.nature.com/articles/s41586-024-08442-5>
- JWST sighting of decametre main-belt asteroids and view on meteorite sources
 - <https://www.nature.com/articles/s41586-024-08480-z>
- What does quantum theory really mean?
 - <https://www.nature.com/articles/d41586-025-00296-9>

Science – February 7, 2025

- No cosmology/astrophysics news this issue

Nature – February 13, 2025

- Neutrino barrels through deep waters near Sicily
 - <https://www.nature.com/articles/d41586-025-00478-5>
 - <https://www.nature.com/articles/d41586-025-00035-0>
 - <https://www.nature.com/articles/s41586-024-08543-1>
- A sharper gaze on galaxy clusters
 - <https://www.nature.com/articles/d41586-025-00087-2>
 - <https://www.nature.com/articles/s41586-024-08561-z>
- Directly imaging the cooling flow in the Phoenix cluster
 - <https://www.nature.com/articles/s41586-024-08369-x>
- Millihertz oscillations near the innermost orbit of a supermassive black hole
 - <https://www.nature.com/articles/s41586-024-08385-x>

Science – February 14, 2025

- Underwater light show heralds highest energy neutrino
 - <https://www.science.org/content/article/record-setting-neutrino-opens-new-energy-window-universe>
- Outrigger locates a fast radio burst
 - <https://www.science.org/doi/10.1126/science.adw6478>
 - <https://iopscience.iop.org/article/10.3847/2041-8213/ad9ddc>

Nature – February 20, 2025

- Galaxy hosts a record-breaking nine starry rings
 - <https://www.nature.com/articles/d41586-025-00399-3>
- Hydrogen escaping from a pair of exoplanets smaller than Neptune
 - <https://www.nature.com/articles/s41586-024-08490-x>

Science – February 21, 2025

- A new origin story for the highest energy cosmic rays
 - <https://www.science.org/content/article/do-mysterious-ultra-energetic-cosmic-rays-come-colliding-neutron-stars>

Nature – February 27, 2025

- No cosmology/astrophysics news this issue

Science – February 28, 2025

- Infrared space telescope will probe inflation after Big Bang
 - <https://www.science.org/doi/10.1126/science.adx0327>
- Forming planetary mass objects
 - <https://doi.org/10.1126/sciadv.adu6058>
- Invisible matter, invisible brains?
 - <https://www.science.org/doi/10.1126/science.adw0099>

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=9MndczV78uw>
- <https://www.youtube.com/watch?v=rogd665KT6Y>
- <https://www.youtube.com/watch?v=GjkqedrTwZo>
- https://www.youtube.com/watch?v=V9NBURK_Tz8
- <https://www.youtube.com/watch?v=qK0eCgob81k>