

Cosmology/Astrophysics News

Northern lights

April 2025 for Rose City Astronomers SIG

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

Nature – April 3, 2025

- No cosmology/astrophysics news this issue.

Science – April 4, 2025

- No cosmology/astrophysics news this issue.

Nature – April 10, 2025

- Acoustic modes in M67 cluster stars trace deepening convective envelopes
 - <https://www.nature.com/articles/s41586-025-08760-2>

Science – April 11, 2025

- Closing the gap in the neutrino mass
 - <https://www.science.org/doi/10.1126/science.adw9435>
 - <https://www.science.org/doi/10.1126/science.adq9592>

Nature – April 17, 2025

- Top quarks in early universe soup
 - <https://physicsworld.com/a/quark-pairs-at-atlas-could-shed-light-on-the-early-universe/>
- Uranus aurorae reveal planet's rotation speed
 - <https://www.nature.com/articles/s41550-025-02492-z>

Science – April 18, 2025

- A tilted “Tatooine planet” whose two suns aren’t stars at all
 - <https://www.science.org/doi/10.1126/sciadv.adx3902>
- Discovery of a high-velocity cloud of the Milky Way as a potential dark galaxy
 - <https://www.science.org/doi/10.1126/sciadv.ads4057>
- Evidence for a polar circumbinary exoplanet orbiting a pair of eclipsing brown dwarfs
 - <https://www.science.org/doi/10.1126/sciadv.adu0627>

Nature – April 24, 2025

- Evidence of star cluster migration and merger in dwarf galaxies
 - <https://www.nature.com/articles/s41586-025-08783-9>

Science – April 25, 2025

- Microlensing events indicate that super-Earth exoplanets are common in Jupiter-like orbits
 - <https://www.science.org/doi/10.1126/science.adn6088>
- Life on an exoplanet? Not so fast
 - <https://www.science.org/content/article/news-glance-claimed-exoplanet-life-signs-advance-ultracold-microscopy-slashed-funds>
- Astronomers claim Chinese star catalog is world's oldest
 - <https://www.science.org/content/article/china-lays-claim-world-s-oldest-surviving-star-catalog>

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=MraVhQl2o_s
 - <https://www.youtube.com/watch?v=negiPvWHaMc>
 - <https://www.youtube.com/watch?v=AuW4NanJktg>
 - <https://www.youtube.com/watch?v=b7Q06j94j9U>