

A cosmic background image featuring a dense field of stars and nebulae. The image is dominated by warm colors like orange, red, and pink, with cooler blue and purple hues interspersed. The nebulae have intricate, filamentary structures, and the stars appear as bright points of light of various colors.

Cosmology/Astrophysics News

Vera C Rubin Observatory photo

June 2025 for Rose City Astronomers SIG

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

Nature – June 5, 2025

- Unexpected clustering pattern in dwarf galaxies challenges formation models
 - <https://www.nature.com/articles/s41586-025-08965-5>

Science – June 5, 2025

- No cosmology/astrophysics news this issue.

Nature – June 12, 2025

- Lost in space: The exoplanet slowly slipping away
 - <https://baas.aas.org/pub/2023n6i327p02/release/1>
 - <https://arxiv.org/abs/2504.13997>
- Does observing reality make it happen?
 - <https://www.nature.com/articles/d41586-025-01773-x>

Science – June 12, 2025

- Proposed LIGO cut could snuff out brand new form of astronomy
 - <https://www.science.org/content/article/trump-s-proposed-cut-giant-physics-experiment-could-snuff-out-new-form-astronomy>

Nature – June 19, 2025

- Third party could nudge galaxies off collision course
 - <https://www.nature.com/articles/s41550-025-02563-1>
- Major telescope hosts world's largest digital camera: how it will transform astronomy
 - <https://www.nature.com/articles/d41586-025-01798-2>

Science – June 19, 2025

- Radio bursts reveal universe’s “missing matter”
 - <https://www.science.org/content/article/radio-bursts-reveal-universe-s-missing-matter>
- All-seeing EYE: Vera C Rubin Observatory
 - <https://www.science.org/content/article/giant-all-seeing-telescope-set-revolutionize-astronomy>
- Forecasting the Sun’s corona
 - <https://www.science.org/doi/10.1126/science.adq0872>

Nature – June 26, 2025

- Molecular hydrogen in the extremely metal and dust-poor Leo P
 - <https://www.nature.com/articles/s41586-025-09115-7>
- Evidence for a sub-Jovian planet in the young TWA7 disk
 - <https://arxiv.org/pdf/2502.15081>

Science – June 26, 2025

- Small stars with big planets
 - <https://iopscience.iop.org/article/10.3847/1538-3881/add2ef>

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=yjcNpGNu-Q8>
 - <https://www.youtube.com/watch?v=WNyY1ZYSzoU>
 - <https://www.youtube.com/watch?v=mxWJJI44UEQ>
 - <https://www.youtube.com/watch?v=QPVcG8TZ8Wg>