



Cosmology/Astrophysics News

Jupiter's moon Io

September 2025 for Rose City Astronomers SIG

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

Nature – September 4, 2025

- Unifying gravity and quantum theory requires better understanding of time
 - <https://www.nature.com/articles/d41586-025-02756-8>
- Marsquakes point to a solid planetary inner core
 - <https://www.nature.com/articles/d41586-025-02530-w>
 - <https://www.nature.com/articles/s41586-025-09361-9>
- Silicate precursor silane detected in cold low-metallicity brown dwarf
 - <https://www.nature.com/articles/s41586-025-09369-1>

Science – September 4, 2025

- An exoplanet's baby picture
 - <https://www.science.org/content/article/jupiter-size-exoplanet-caught-act-being-born>
- Was a blob of dark matter spotted in the Milky Way?
 - <https://www.science.org/content/article/has-huge-blob-dark-matter-been-found-our-galactic-neighborhood>
- Reducing noise at LIGO with machine learning
 - <https://www.science.org/doi/10.1126/science.adw1291>

Nature – September 11, 2025

- How did the oldest star clusters form?
 - <https://www.nature.com/articles/d41586-025-02598-4>
 - <https://www.nature.com/articles/s41586-025-09494-x>
- Redox-driven mineral and organic associations in Jezero Crater, Mars
 - <https://www.nature.com/articles/s41586-025-09413-0>

Science – September 11, 2025

- New picture of Mars's interior emerges from lander data
 - <https://www.science.org/content/article/data-defunct-nasa-lander-paint-radical-new-picture-mars-s-interior>
- Strongest black hole collision yet resonates with Einstein
 - <https://www.science.org/content/article/strongest-black-hole-collision-yet-confirms-theories-einstein-hawking>

Nature – September 18, 2025

- No cosmology/astrophysics this issue

Science – September 18, 2025

- No cosmology/astrophysics this issue

Nature – September 25, 2025

- Early snaps of unexpected visitor 3I/Atlas
 - <https://www.yahoo.com/news/articles/massive-interstellar-3i-atlas-comet-184509877.html>
- LIGO is 10 years old: Black-hole breakthroughs will only get better
 - <https://www.nature.com/articles/d41586-025-02941-9>
- Satellites reveal mysterious changes near Earth's core
 - <https://www.nature.com/articles/d41586-025-03007-6>

Science – September 25, 2025

- No cosmology/astrophysics this issue

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=X-afruuGKkg>
 - <https://www.youtube.com/watch?v=lvye51d5Vis>
 - <https://www.youtube.com/watch?v=zfROYHL1m7A>
 - <https://www.youtube.com/watch?v=lyyZzzgoLNE>