

Cosmology/Astrophysics News

ALMA view of Milky Way center

February 2026 for Rose City Astronomers SIG

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

Nature – February 5, 2026

- All over the map: Galactic clumping defies expectations
 - <https://arxiv.org/abs/2601.14559>
- How quarks form from seemingly empty space
 - <https://www.nature.com/articles/d41586-026-00036-7>
- Core-envelope miscibility in sub-Neptunes and super-Earths
 - <https://www.nature.com/articles/s41586-025-09970-4>

Science – February 5, 2026

- Astronomers spot Earth-size planet with yearlong orbit
 - <https://www.science.org/content/article/earth-size-planet-spotted-yearlong-orbit>

Nature – February 12, 2026

- Jupiter gets downsized and squashed
 - <https://www.nature.com/articles/s41550-026-02777-x>
 - <https://www.nature.com/articles/d41586-026-00336-y>
 - <https://www.nature.com/articles/s41550-026-02778-w>
- Ten years of gravitational-wave observations
 - <https://www.nature.com/articles/d41586-026-00172-0>
- Disentangling multiple gas kinematic drivers in the Perseus galaxy cluster
 - <https://www.nature.com/articles/s41586-025-10017-x>
- Constraints on axion dark matter by distributed intercity quantum sensors
 - <https://www.nature.com/articles/s41586-025-10034-w>

Science – February 12, 2026

- A star that disappeared into a black hole
 - <https://www.science.org/doi/10.1126/science.adt4853>
- Binary stars host fewer exoplanets
 - <https://iopscience.iop.org/article/10.3847/1538-3881/ae2021>
- Disappearance of a massive star in the Andromeda Galaxy due to formation of a black hole
 - <https://www.science.org/doi/10.1126/science.adt4853>

Nature – February 19, 2026

- No cosmology/astrophysics this issue

Science – February 19, 2026

- Black holes disguised as little red dots
 - <https://www.science.org/doi/10.1126/science.adz8603>
- Igneous rocks on the rim of Jezero crater
 - <https://www.science.org/doi/10.1126/science.adu8264>

Nature – February 26, 2026

- Runaway black hole leaving stars strewn in its wake

– https://www.researchgate.net/publication/400618453_JWST_Confirmation_of_a_Runaway_Supermassive_Black_Hole_via_Its_Supersonic_Bow_Shock

Science – February 26, 2026

- Galactic outflow driven by a radio jet
 - <https://arxiv.org/abs/2601.08791>

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=zaJRfVRe-Vg>
 - <https://www.youtube.com/watch?v=qNCCDX32XYE>
 - https://www.youtube.com/watch?v=58K_z0MeDdk
 - <https://www.youtube.com/watch?v=UbInSCs47Gw>