Cosmology/Astrophysics News

Getting ready for Artemis II launch

January 2026 for Rose City Astronomers SIG

http://101iq.com/RCA

Nature – January 8, 2026

- Ultra-low-density planets seen around young star
  - https://www.nature.com/articles/d41586-025-03983-9
- A young progenitor for the most common planetary systems in the Galaxy
  - https://www.nature.com/articles/s41586-025-09840-z

Science – January 8, 2026

- No cosmology/astrophysics this issue

Nature – January 15, 2026

- Little red dots could be black holes in disguise
  - https://www.nature.com/articles/d41586-025-04089-y
  - https://www.nature.com/articles/s41586-025-09900-4

Science – January 15, 2026

- Ex-Google CEO funds private space telescope bigger than Hubble
  - https://www.science.org/content/article/ex-google-ceo-funds-private-space-telescope-bigger-hubble
- A black hole merging with a helium star
  - https://academic.oup.com/mnras/article/545/2/staf2019/8323170
- A sudden change and recovery in the magnetic environment around a repeating fast radio burst
  - https://www.science.org/doi/10.1126/science.adq3225

Nature – January 22, 2026

- Quantum effect observed for biggest objects yet
  - https://www.nature.com/articles/d41586-025-04097-y
- Large-scale dynamos driven by shear-flow-induced jets
  - https://www.nature.com/articles/s41586-025-09912-0
- Accretion bursts crystallize silicates in a planet-forming disk
  - https://www.nature.com/articles/s41586-025-09939-3
- Probing quantum mechanics with nanoparticle matter-wave interferometry
  - https://www.nature.com/articles/s41586-025-09917-9

Science – January 22, 2026

- Tracking space debris from sonic booms
  - https://www.science.org/doi/10.1126/science.aee0657
- A second planetesimal collision in the Fomalhaut system
  - https://www.science.org/doi/10.1126/science.adu6266

Nature – January 29, 2026

- Quantum physicists create largest ever superposition
  - https://www.nature.com/articles/d41586-026-00177-9
- Sunyaev-Zeldovich detection of hot intracluster gas at redshift 4.3
  - https://www.nature.com/articles/s41586-025-09901-3
- An X-ray-emitting protocluster at z=5.7 reveals rapid structure growth
  - https://www.nature.com/articles/s41586-025-09973-1

Science – January 29, 2026

- Into the Deep – as humans return to the moon
  - https://www.science.org/content/article/humans-return-moon-scientists-confront-dangers-deep-space-radiation

Miscellaneous

- I will post this monthly news possibly with zero or more videos and links to watch, as for example, these:
  - https://spectrum.ieee.org/lunar-radio-telescope
  - https://www.youtube.com/watch?v=ykObAiS4ugg
  - https://www.youtube.com/watch?v=UFXiFfj058U
  - https://www.youtube.com/watch?v=912vQr6ulNk