

Sun on September 1, 2024

Cosmology/Astrophysics News

August 2024 for Rose City Astronomers SIG

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

Nature – August 1, 2024

- A hot-Jupiter progenitor on a super-eccentric retrograde orbit
 - <https://www.nature.com/articles/s41586-024-07688-3>

Science – August 2, 2024

- No cosmology/astrophysics news this issue

Nature – August 8, 2024

- Calculation show that it is impossible to create a black hole from light alone
 - <https://www.nature.com/articles/d41586-024-02505-3>

Science – August 9, 2024

- Could my lifelong love for astronomy be more than a pastime?
 - <https://www.science.org/content/article/love-night-sky-emboldened-pursue-new-dreams>

Nature – August 15, 2024

- Are these the earliest-known star clusters?
 - <https://www.nature.com/articles/s41586-024-07703-7>
 - <https://www.nature.com/articles/d41586-024-02438-x>

Science – August 16, 2024

- New results intensify debate over cosmic expansion rate
 - <https://www.science.org/content/article/space-telescope-data-reignite-debate-over-how-fast-universe-expanding-and-whether-new>
- Dino-killing asteroid came from beyond Jupiter
 - <https://www.science.org/content/article/dino-killing-asteroid-came-beyond-jupiter>
- Ruthenium isotopes show the Chicxulub impactor was a carbonaceous-type asteroid
 - <https://www.science.org/doi/10.1126/science.adk4868>

Nature – August 22, 2024

- Black holes are too scarce to explain dark matter
 - <https://x.com/Nature/status/1825664374700179887>
- No massive black holes in the Milky Way halo
 - <https://www.nature.com/articles/s41586-024-07704-6>

Science – August 23, 2024

- No cosmology/astrophysics this issue.

Nature – August 29, 2024

- Black holes regulate cool gas accretion in massive galaxies
 - <https://www.nature.com/articles/s41586-024-07821-2>
- A nebular origin for the persistent radio emission of fast radio bursts
 - <https://www.nature.com/articles/s41586-024-07782-6>
- Inhomogeneous terminators on the exoplanet WASP-39b
 - <https://www.nature.com/articles/s41586-024-07768-4>

Science – August 30, 2024

- Interplanetary rendezvous at a solar wind stream
 - <https://www.science.org/doi/10.1126/science.adr5854>
- In situ observations of large-amplitude Alfvén waves heating and accelerating the solar wind
 - <https://www.science.org/doi/10.1126/science.adk6953>

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=w6zi95SknZw>
 - <https://www.youtube.com/watch?v=3Illx0WkCxU>
 - <https://www.youtube.com/watch?v=WQwwn5cGn5w>
 - <https://www.youtube.com/watch?v=yfzosycRoe4>
 - <https://www.youtube.com/watch?v=T1JuCPhONlg>