

# Cosmology/Astrophysics News

A detailed illustration of the James Webb Space Telescope in space. The telescope's large, gold-colored hexagonal mirror is the central focus, mounted on a complex black structure. It is attached to a long, white, segmented sunshield that extends across the frame. The background is a vast field of stars and galaxies, with a large orange planet visible in the upper left corner.

James Webb Telescope  
hopefully to launch soon

November 2021 for Rose City Astronomers SIG

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

# Nature – November 4, 2021

- Mysterious “Alien Beacon” from Proxima Centauri was false alarm
  - <https://www.nature.com/articles/d41586-021-02931-7>

# Science – November 5, 2021

- Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars
  - <https://www.science.org/doi/10.1126/science.abl4051>

# Nature – November 11, 2021

- US Astronomy's 10-year plan is super-ambitious
  - <https://www.nature.com/articles/d41586-021-03027-y>

# Science – November 12, 2021

- Is the end in sight for famous dark matter claim
  - <https://www.science.org/content/article/end-sight-famous-dark-matter-claim>
  - <https://www.science.org/doi/10.1126/sciadv.abk2699>
- First light machine – James Webb Space Telescope
  - <https://www.science.org/content/article/launch-pad-last-nasa-s-webb-telescope-will-probe-first-stars-weather-alien-worlds>
- Did Theia impact Earth twice?
  - <https://iopscience.iop.org/article/10.3847/PSJ/ac19b2>
- Age and composition of young basalts on the Moon, measured from samples returned by Chang'e-5
  - <https://www.science.org/doi/10.1126/science.abl7957>

# Nature – November 18, 2021

- In-orbit demonstration of an iodine electric propulsion system
  - <https://www.nature.com/articles/s41586-021-04015-y>

# Science – November 19, 2021

- The depth of Jupiter's Great Red Spot constrained by Juno gravity overflights
  - <https://www.science.org/doi/10.1126/science.abf1396>
- Microwave observations reveal the deep extent and structure of Jupiter's atmospheric vortices
  - <https://www.science.org/doi/10.1126/science.abf1015>



# Nature – November 25, 2021

- Gravitational-wave detectors release latest data
  - <https://www.nature.com/articles/d41586-021-03089-y>
  - <https://arxiv.org/abs/2111.03606>
- China's Mars rover has amassed reams of novel geological data
  - <https://www.nature.com/articles/d41586-021-03554-8>
- Electrons reveal the need for improved neutrino models
  - <https://www.nature.com/articles/d41586-021-03456-9>
  - <https://www.nature.com/articles/s41586-021-04046-5>



# Science – November 26, 2021

- No cosmology/astrophysics news this issue

# Miscellaneous

- Next in-person meeting will be when pandemic is over. Please stay safe!
- In the meantime, I will post this monthly news possibly with zero or more videos and links to watch, as for example, these:
  - <https://scitechdaily.com/new-supercomputer-simulations-provide-clue-to-missing-planets-mystery/>
  - <https://www.youtube.com/watch?v=bJplclDmi2M>
  - <https://youtu.be/tlJ3f5i6F9M>
  - <https://www.youtube.com/watch?v=rTUyOR1p41c>
  - [https://www.youtube.com/watch?v=EeAguTk6\\_2E](https://www.youtube.com/watch?v=EeAguTk6_2E)