

Cosmology/Astrophysics News

James Webb telescope is
on its way!

December 2021 for Rose City Astronomers SIG

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



Nature – December 2, 2021

- Robotic sample return reveals lunar secrets
 - <https://www.nature.com/articles/d41586-021-03547-7>
 - <https://www.nature.com/articles/s41586-021-04119-5>
 - <https://www.nature.com/articles/s41586-021-04107-9>
 - <https://www.nature.com/articles/s41586-021-04100-2>

Science – December 3, 2021

- GJ 367b: A dense, ultrashort –period sub-Earth planet transiting a nearby red dwarf star
 - <https://www.science.org/doi/10.1126/science.aay3253>

Nature – December 9, 2021

- A planetary system with a peculiarly peaceful past
 - <https://www.nature.com/articles/s41550-021-01518-6>
- China's Mars rover has amassed reams of geological data
 - <https://www.nature.com/articles/d41586-021-03554-8>
- Giant planet imaged orbiting two massive stars
 - <https://www.nature.com/articles/d41586-021-03607-y>
- A wide-orbit giant planet in the high-mass β Centauri binary system
 - <https://www.nature.com/articles/s41586-021-04124-8>

Science – December 10, 2021

- X-ray telescope to study how magnetic objects sculpt light
 - <https://www.science.org/content/article/nasa-telescope-study-how-extreme-cosmic-objects-sculpt-x-ray-light>
- Martian water escape and internal waves
 - <https://www.science.org/doi/10.1126/science.abg5893>

Nature – December 16, 2021

- Sublimation-driven convection in Sputnik Planitia on Pluto
 - <https://www.nature.com/articles/s41586-021-04095-w>
- Direct limits for scalar field dark matter from a gravitational-wave detector
 - <https://www.nature.com/articles/s41586-021-04031-y>

Science – December 17, 2021

- NASA lander uncovers the Red Planet's core
 - <https://www.space.com/mars-subsurface-map-from-insight-wind-sound>

Nature – December 23/30, 2021

- Very-high-frequency oscillations in the main peak of a magnetar giant flare
 - <https://www.nature.com/articles/s41586-021-04101-1>

Science – December 24, 2021

- With double pulsar, theory of gravity passes toughest test yet
 - <https://www.science.org/content/article/double-pulsar-data-helps-einstein-s-theory-gravity-pass-toughest-test-yet>

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://spectrum.ieee.org/jupiter-auroras-jaxa-nasa>
 - <https://youtu.be/hm7PSHXBvnw>
 - <https://youtu.be/ZZset72bHLI> & <https://youtu.be/Vk5bxHetL4s>