

Cosmology/Astrophysics News

James Webb telescope
alignment image

March 2022 for Rose City Astronomers SIG

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

Nature – March 3, 2022

- How NASA's Mars rover hit a geological jackpot
 - <https://www.nature.com/articles/d41586-022-00469-w>
- Asteroids, Hubble rival and moon base: China sets space plan
 - <https://www.nature.com/articles/d41586-022-00439-2>
- Progress and prospects in magnetic topological materials
 - <https://www.nature.com/articles/s41586-021-04105-x>
- A persistent ultraviolet outflow from an accreting neutron star binary transient
 - <https://www.nature.com/articles/s41586-021-04324-2>

Science – March 4, 2022

- Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth
 - <https://www.science.org/doi/10.1126/science.abj8624>
- A synthetic magnetic monopole source of Kalb-Ramond field in diamond
 - <https://www.science.org/doi/abs/10.1126/science.abe6437>

Nature – March 10, 2022

- Gargantuan comet confirmed as largest of its kind – “Bernardinelli-Bernstein”
 - <https://www.nature.com/articles/d41586-022-00588-4>
 - <https://www.nationalgeographic.co.uk/space/2021/09/one-of-the-largest-comets-ever-seen-is-headed-our-way>
- Active Galactic Nuclei disks as potential factories for eccentric black hole mergers
 - <https://www.nature.com/articles/s41586-021-04333-1>

Science – March 11, 2022

- No cosmology/astrophysics news this issue

Nature – March 17, 2022

- No cosmology/astrophysics news this issue

Science – March 18, 2022

- Unifying repeating fast radio bursts
 - <https://www.science.org/doi/abs/10.1126/science.abo2353?af=R>
 - <https://arxiv.org/abs/2110.07418>
- Pulsar planets are extremely rare
 - <https://aasnova.org/2016/10/11/why-are-pulsar-planets-rare/>
 - <https://academic.oup.com/mnras/article-abstract/512/2/2446/6542453>

Nature – March 24, 2022

- Star turn: Planet so big scientists looked twice
 - https://authors.library.caltech.edu/113813/1/Mann_2022_AJ_163_156.pdf
- China's first moon rocks ignite research bonanza
 - <https://www.nature.com/articles/d41586-022-00683-6>
- A stellar clock reveals the history of the Milky Way
 - <https://www.nature.com/articles/d41586-022-00768-2>
 - <https://www.nature.com/articles/s41586-022-04496-5>

Science – March 25, 2022

- In stellar test, Webb space telescope shows pi-sharp vision
 - <https://www.nasa.gov/press-release/nasa-s-webb-reaches-alignment-milestone-optics-working-successfully>

Nature – March 31, 2022

- Astronomy's carbon footprint is sky-high
 - <https://www.nature.com/articles/d41586-022-00824-x>
- A highly magnified star at redshift 6.2
 - <https://www.nature.com/articles/s41586-022-04449-y>

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://www.youtube.com/watch?v=zwD6FMOR4h0>
 - <https://www.youtube.com/watch?v=SKfY5msFCSs>
 - <https://www.youtube.com/watch?v=jeRgFqbBM5E>
 - <https://www.youtube.com/watch?v=Bo4aI7sNPkE>