

# Cosmology/Astrophysics News



Stephan's Quintet

July 2022 for Rose City Astronomers SIG

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

# Science – July 1, 2022

- No cosmology/astrophysics in this issue

# Nature – July 7, 2022

- The Higgs boson turns 10
  - <https://www.nature.com/articles/s41586-022-04899-4>
  - <https://www.nature.com/articles/s41586-022-04893-w>
  - <https://www.nature.com/articles/s41586-022-04892-x>
- Turbulent cold flows gave birth to the first quasars
  - <https://www.nature.com/articles/s41586-022-04813-y>

# Science – July 8, 2022

- “The End of Astronauts” book review
  - <https://www.science.org/doi/10.1126/science.abq7394>

# Nature – July 14, 2022

- Upgraded LHC begins epic run to search for new physics
  - <https://www.nature.com/articles/d41586-022-01859-w>
- Sub-second periodicity in a fast radio burst
  - <https://www.nature.com/articles/s41586-022-04841-8>

# Science – July 15, 2022

- Webb telescope wows with first images
  - <https://www.science.org/content/article/webb-telescope-wows-first-images>
- Hunt for a long-sought dark matter particle nears a climax
  - <https://www.science.org/content/article/dark-matter-hunt-heats-first-result-world-s-biggest-detector>
- Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu
  - <https://www.science.org/doi/10.1126/science.abm1018>
- Krypton in the Chassigny meteorite shows Mars accreted chondritic volatiles before nebular gases
  - <https://www.science.org/doi/10.1126/science.abk1175>

# Nature – July 21, 2022

- Unconventional way to measure gravitational constant
  - <https://www.nature.com/articles/s41567-022-01642-8>
- Landmark Webb telescope releases first scientific images – astronomers are in awe
  - <https://www.nature.com/articles/d41586-022-01906-6>
- Extended far-ultraviolet emission in distant dwarf galaxies
  - <https://www.nature.com/articles/s41586-022-04905-9>

# Science – July 22, 2022

- Searches during twilight toward the Sun have found several asteroids near Venus' orbit
  - <https://www.science.org/doi/10.1126/science.abj9820>



# Nature – July 28, 2022

- A quiet black hole whispers its origin story
  - <https://www.nature.com/articles/d41586-022-01970-y>
- Hawaii law could break years-long astronomy impasse
  - <https://www.nature.com/articles/d41586-022-01926-2>

# Science – July 29, 2022

- Voyager probes raised perplexing questions
  - <https://www.science.org/content/article/voyager-steroids-mission-probe-mysterious-region-beyond-solar-system>
- Radio bursts from zombie black holes excite astronomers
  - <https://www.science.org/doi/epdf/10.1126/science.ade1301>

# 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=zTJifrl3SDM>
  - [https://www.youtube.com/watch?v=7K2J-cO\\_tOI](https://www.youtube.com/watch?v=7K2J-cO_tOI)
  - [https://www.youtube.com/watch?v=Gi0\\_RjkK4Fc](https://www.youtube.com/watch?v=Gi0_RjkK4Fc)
  - <https://www.youtube.com/watch?v=JnKzt6Xq-w4>
  - <https://www.youtube.com/watch?v=GwzN5YwMzv0>