Cosmology/Astrophysics News

Black hole's polarized light

April 2021 for Rose City Astronomers SIG

http://101iq.com/RCA

Science – March 26, 2021

- Remains of Moon-forming impact may lie deep in Earth
 - https://science.sciencemag.org/content/371/6536/1295
- Lens array captures dim objects missed by giant telescopes
 - https://science.sciencemag.org/content/371/6536/1301

Nature – April 1, 2021

- Long-awaited muon physics experiment nears moment of truth – might upend fundamental physics
 - https://www.nature.com/articles/d41586-021-00833-2
- Antimatter hydrogen cooled by laser light
 - https://www.nature.com/articles/d41586-021-00786-6
 - https://www.nature.com/articles/s41586-021-03289-6

Science – April 2, 2021

- Polarized light view of black hole
 - https://scitechdaily.com/astronomers-polarized-image-shows-magnetic-fields-at-the-edge-of-m87s-black-hole/
- Underwater neutrino traps take shape
 - https://science.sciencemag.org/content/372/6537/15
- Hydrated crust stores Mars' missing water
 - https://science.sciencemag.org/content/372/6537/27

Nature – April 8, 2021

No cosmology/astrophysics news this issue

Science – April 9, 2021

- Possibility of new physics not fading
 - https://science.sciencemag.org/content/372/6538/113
- Magnetars & gamma rays
 - https://science.sciencemag.org/content/372/6538/120.summary
- Enhanced x-ray emission coinciding with giant radio pulses from the Crab Pulsar
 - https://science.sciencemag.org/content/372/6538/187

Nature – April 15, 2021

- Star formation near Milkyway galactic center
 - https://iopscience.iop.org/article/10.3847/1538-4357/abde3c
- Is the standard model broken? Physicists cheer muon result
 - https://www.nature.com/articles/d41586-021-00898-z

Science – April 16, 2021

No cosmology/astrophysics news this issue

Nature – April 22, 2021

- Dark matter wake behind Large Magellanic Cloud
 - https://www.nature.com/articles/s41586-021-03385-7
- High-entropy ejecta plumes in Cassiopeia A from neutrino-driven convention
 - https://www.nature.com/articles/s41586-021-03391-9

Science – April 23, 2021

- Ingenuity takes otherworldly first flight
 - https://www.nasa.gov/press-release/nasa-ingenuity-mars-helicopter-prepares-for-first-flight
- A fresh effort to glimpse black holes
 - https://www.jpl.nasa.gov/news/telescopes-unite-in-unprecedented-observations-of-famous-black-hole
- Weighing Psyche asteroid
 - https://iopscience.iop.org/article/10.3847/2041-8213/abe948/meta

Nature – April 29, 2021

- First flight on Mars
 - https://www.nature.com/articles/d41586-021-00909-z

Science – April 30, 2021

- How highly magnetized neutron stars set off powerful cosmic explosions: Video:
 - www.youtube.com/watch?v=7jcdCLcgftA
- Antimatter stars?
 - https://www.sciencenews.org/article/antimatter-stars-antistars-milky-way-galaxy-space-astronomy

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 a video to watch, as for example, these:
- https://www.youtube.com/watch?v=O4Ko7NW2yQo
- https://www.youtube.com/watch?v=M-IvBDgFGj8