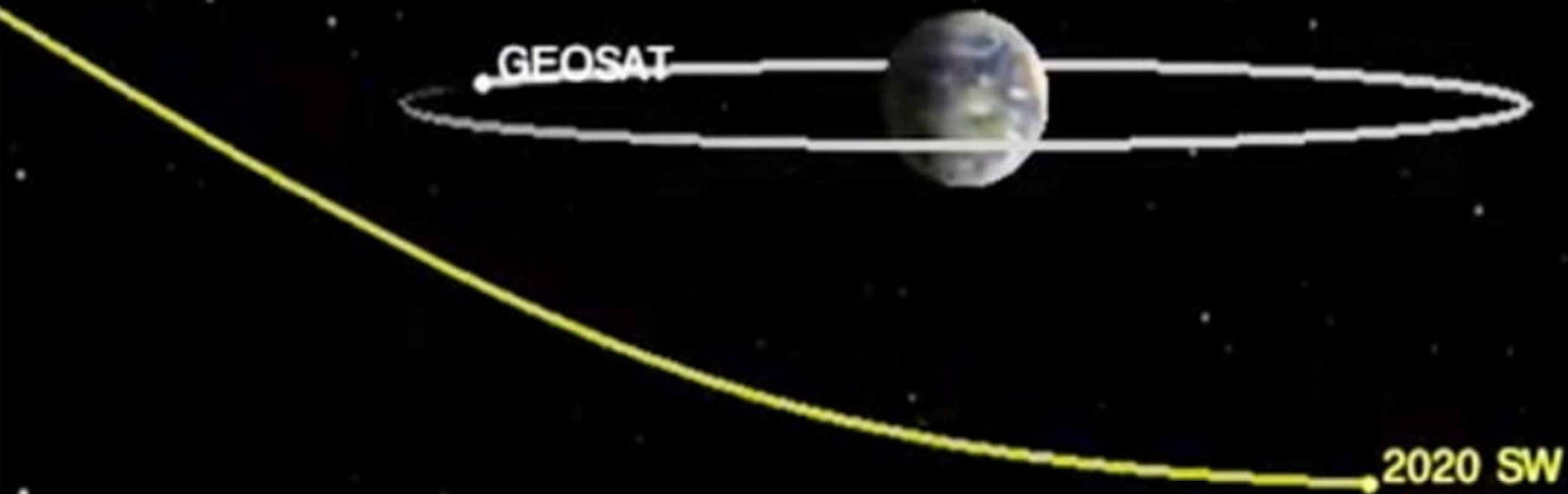


# Cosmology/Astrophysics News



Asteroid near miss Sept. 24, 2020.  
.. asteroids added to global  
disaster list to worry about

## September 2020 for Rose City Astronomers SIG

# Nature – September 3, 2020

- Largest black hole collision
  - <https://www.nature.com/articles/d41586-020-02524-w>
- Universal structure of dark matter haloes over a mass range of 20 orders of magnitude
  - <https://www.nature.com/articles/s41586-020-2642-9>

# Science – September 4, 2020

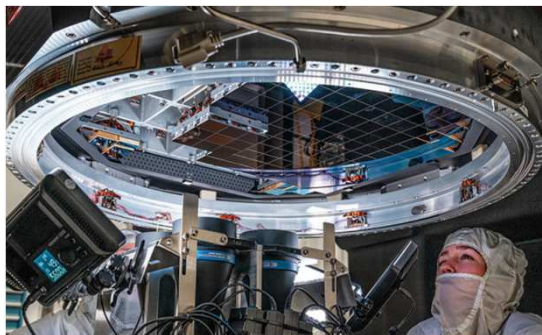
- Intermediate mass black hole found (142 suns)
  - <https://journals.aps.org/prl/accepted/0f07dYacGcf14f75e72c6249d686e01846bfe1ed5>
  - <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.125.101102>
- Lunar hematite may contain a record of billions of years of oxygen isotopes in Earth's atmosphere
  - <https://advances.sciencemag.org/content/6/36/eaba1940>
- A triple-star system with a misaligned and warped circumstellar disk shaped by disk tearing
  - <https://science.sciencemag.org/content/369/6508/1233>

# Nature – September 10, 2020

- Astronomers detect “mindboggling” black-hole collision
  - <https://media.nature.com/original/magazine-assets/d41586-020-02524-w/d41586-020-02524-w.pdf>
  - <https://www.nature.com/articles/d41586-020-02524-w>
- The Magellanic Corona as the key to the formation of the Magellanic Stream
  - <https://www.nature.com/articles/s41586-020-2663-4>

# Science – September 11, 2020

- Alien hunters
  - <https://science.sciencemag.org/content/369/6509/1288>
- An excess of small-scale gravitational lenses observed in galaxy clusters
  - <https://science.sciencemag.org/content/369/6509/1347>
- Telescope's giant sensor snaps most detailed photo ever – 3200 megapixels – for Vera C Rubin Observatory in Chile
  - [https://www.sciencemagazinedigital.org/sciencemagazine/11\\_september\\_2020/MobilePagedArticle.action?articleId=1618875#articleId1618875](https://www.sciencemagazinedigital.org/sciencemagazine/11_september_2020/MobilePagedArticle.action?articleId=1618875#articleId1618875)



# Nature – September 17, 2020

- Giant planet transiting a white dwarf
  - <https://www.nature.com/articles/s41586-020-2713-y>
  - <https://www.nature.com/articles/d41586-020-02555-3>

# Science – September 18, 2020

- Substellar companions shape the winds of evolved stars
  - <https://science.sciencemag.org/content/369/6510/1497>

# Nature – September 24, 2020

- No cosmology/astrophysics news this issue



# Science – September 25, 2020

- Dark skies and bright satellites
  - <https://science.sciencemag.org/content/369/6511/1543>
- Understanding quantum cause and effect
  - book review of “Synchronicity” by Paul Halpern
    - <https://science.sciencemag.org/content/369/6511/1573>

# 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, this:
  - <http://youtu.be/msVuCEs8Ydo>
  - <https://www.youtube.com/watch?v=iBTez-nTKes>
  - <https://youtu.be/tZQadPmTd84>