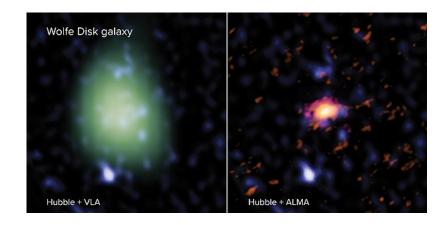
DLA0817g

DLAo817g, also known as the **Wolfe Disk**, [1] is a galaxy located in the constellation Cancer, 12.276 billion light-years (3.764 billion parsecs) from Earth. [2]

Discovered in 2017 using observations made with the Atacama Large Millimeter Array (ALMA), it was studied with the Karl G. Jansky Very Large Array (JVLA) observatory and the Hubble Space Telescope.



It is a large rotating disc galaxy, with a mass of approximately 72 billion solar

masses, dating back to an early age in the life of the universe, approximately 1.5 billion years after the <u>Big</u> Bang. This contradicts previous models that describe the formation and evolution of galaxies and that foresee a gradual and progressive increase in galactic dimensions.

This galaxy has other characteristics that appear early compared to its age. Its rotational speed, approximately 272 km/s (610,000 mph), is also comparable to that of a mature galaxy like our Milky Way galaxy. It is nicknamed the Wolfe Galaxy or the Wolfe Disc in honor of Arthur M. Wolfe, an American astrophysicist, one of the discoverers of the Sachs-Wolfe effect.

References

- 1. "Astronomers discover ancient galaxy that formed more than 12 billion years ago" (https://www.cbsnews.com/news/astronomers-discover-12-billion-year-old-oldest-disk-galaxy/). CBS News. 20 May 2020. Retrieved 24 May 2020.
- Neeleman, Marcel; Prochaska, J. Xavier; Kanekar, Nissim; Rafelski, Marc (May 2020). "A cold, massive, rotating disk galaxy 1.5 billion years after the Big Bang" (https://www.nature.com/articles/s4 1586-020-2276-y). Nature. 581 (7808): 269–272. arXiv:2005.09661 (https://arxiv.org/abs/2005.0966 1). doi:10.1038/s41586-020-2276-y (https://doi.org/10.1038%2Fs41586-020-2276-y). ISSN 1476-4687 (https://www.worldcat.org/issn/1476-4687).

Retrieved from "https://en.wikipedia.org/w/index.php?title=DLA0817g&oldid=1012181504"

This page was last edited on 15 March 2021, at 01:28.

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.