

Gaia BH3

Why in News?

Recently, the astronomers have discovered a gigantic black hole, Gaia BH3.

- **Gaia BH3** - It is a **dormant black hole**, and it is the 3rd kind of Gaia Black Hole.
- It is the **1st black hole** found in the Milky Way galaxy's outer reaches and the largest known stellar-mass black hole in the galaxy.
- **Discovered in** - **2024**.
- **Discovered by** - European Space Agency's Gaia telescope.

Gaia telescope has been constantly monitoring the motions of billions of stars in the galaxy since 2013 under European Space Agency's astrometry mission.

- **Distance** - 1,926 light-years from Earth, which makes it the **2nd closest black hole to the Earth**.
- **Located in** - About 2,000 light years away in the constellation.
- **Constellation** - *Aquila* and appears to be a passive black hole.
- **Solar Mass** - Nearly 33 times the mass of the Sun.



- **Features** - It isn't actively pulling material from its surroundings due to lacks of significant supply of matter in its neighborhood.
- It doesn't have associated X-ray emissions either.

Gaia BH1	<ul style="list-style-type: none">• It is the closest black hole to the earth.• Located in - About 1,560 light years away in the constellation Ophiuchus.• Distance - 1.4% of Milky Way's width.• Galaxy's centre - 26,670 light years away.
Gaia BH2	<ul style="list-style-type: none">• Located in - About 3,800 light years away in the constellation Centaurus.• Solar Masses - 9 times that of the sun.

References

1. [The Hindu| Gigantic Black Hole, Gaia BH3](#)
2. [ESA| Gaia BH3](#)

