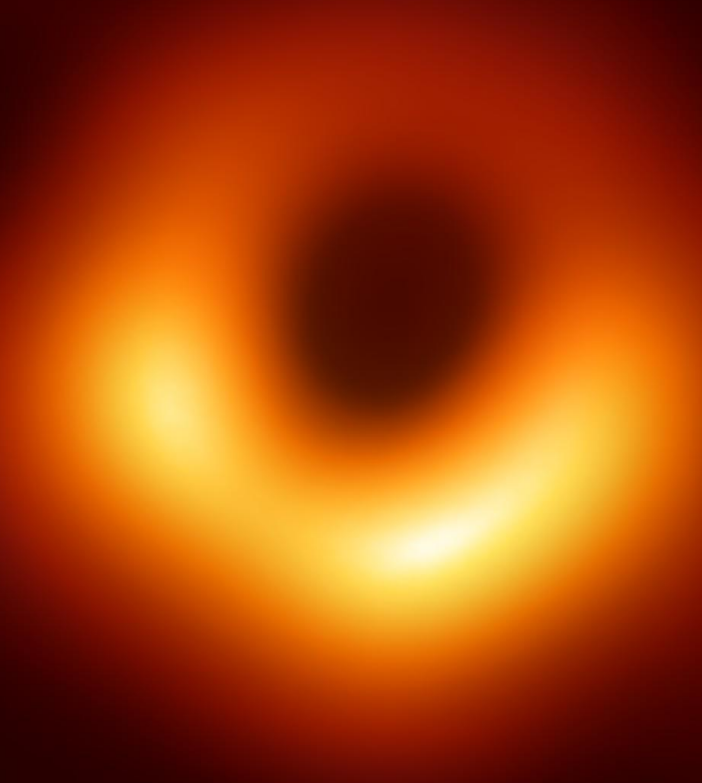


Black Holes

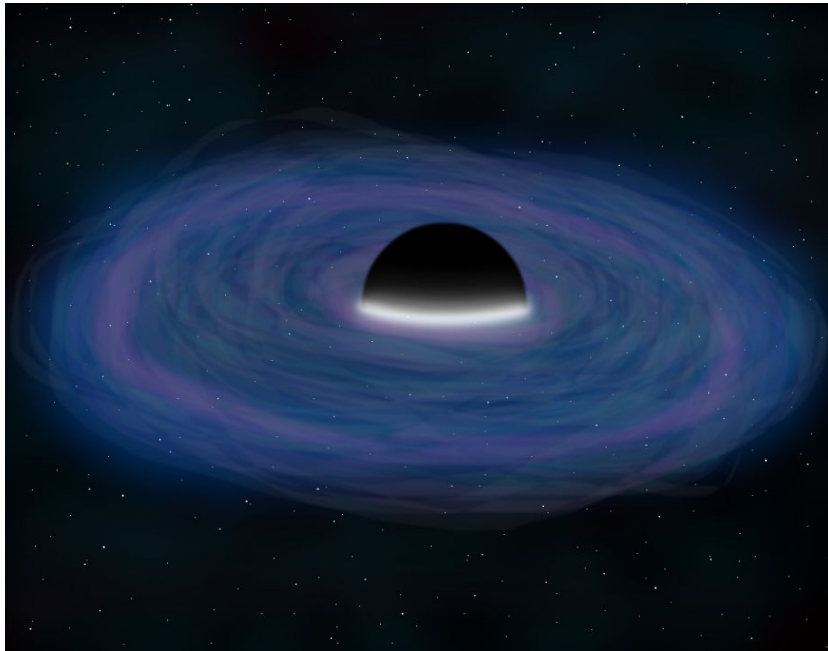


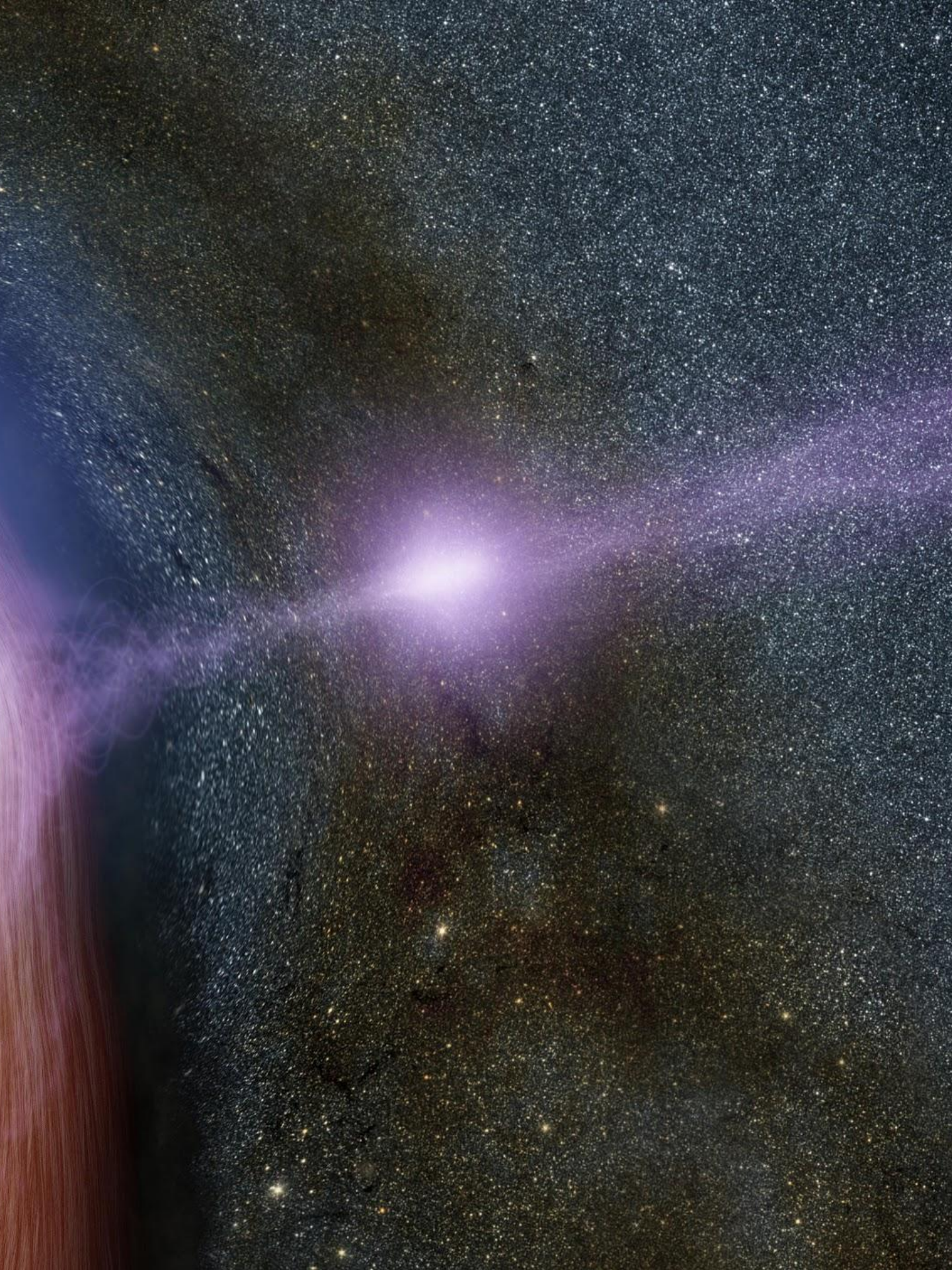
By Xavier Nevarez

Black Holes

What is a black Hole?

A Black hole is a place in space that gravity pulls so strong that not even light can escape. Black Holes are invisible because no light can escape.



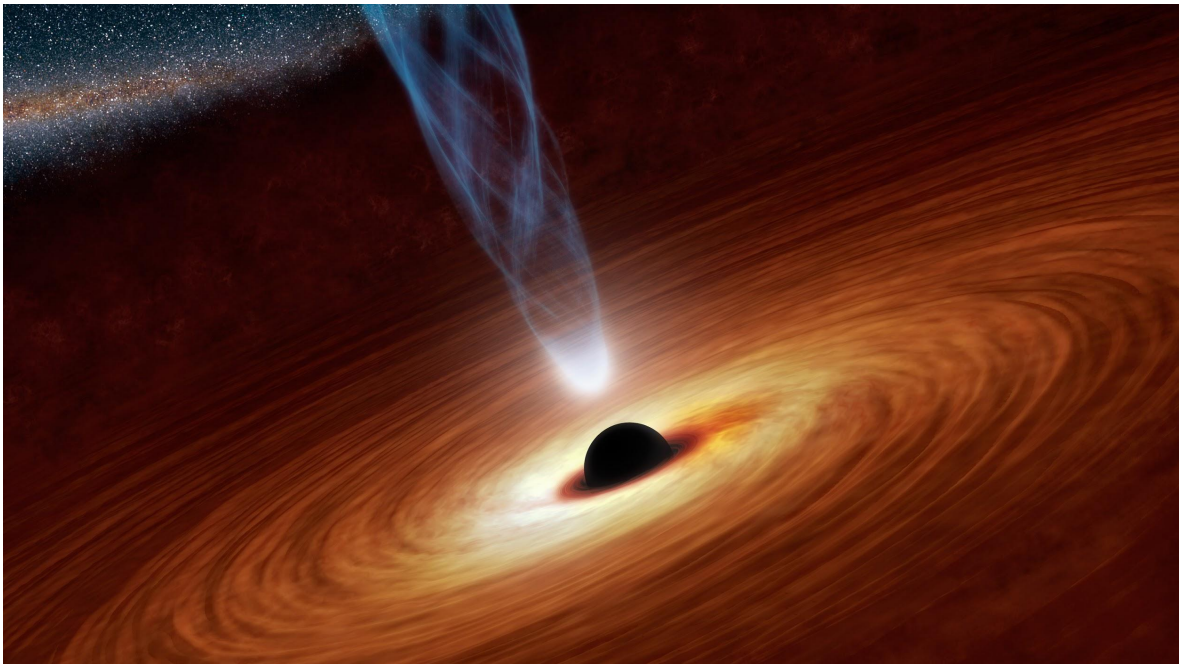


Black Holes

How big are Black Holes

There are many different types of black holes some are very small some are very big.

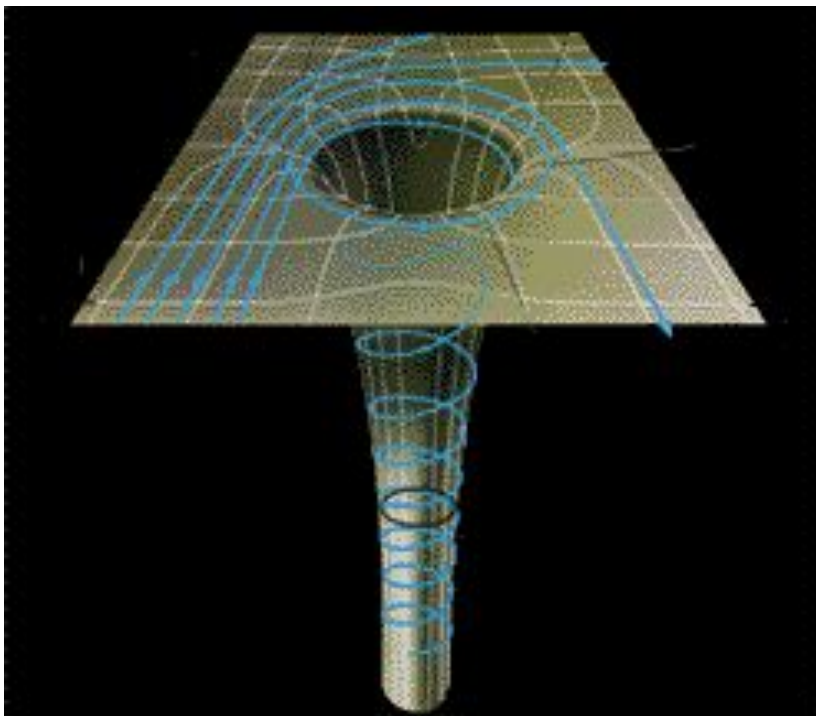
scientists believe the smallest black holes are the size of a atom but they have the mass of a large mountain. The next type of black holes are stellar mass black holes size ones they have 20 times the mass of our sun. supermassive black holes are huge they have 1 million times the mass of our sun!



Black Holes

How do black holes work

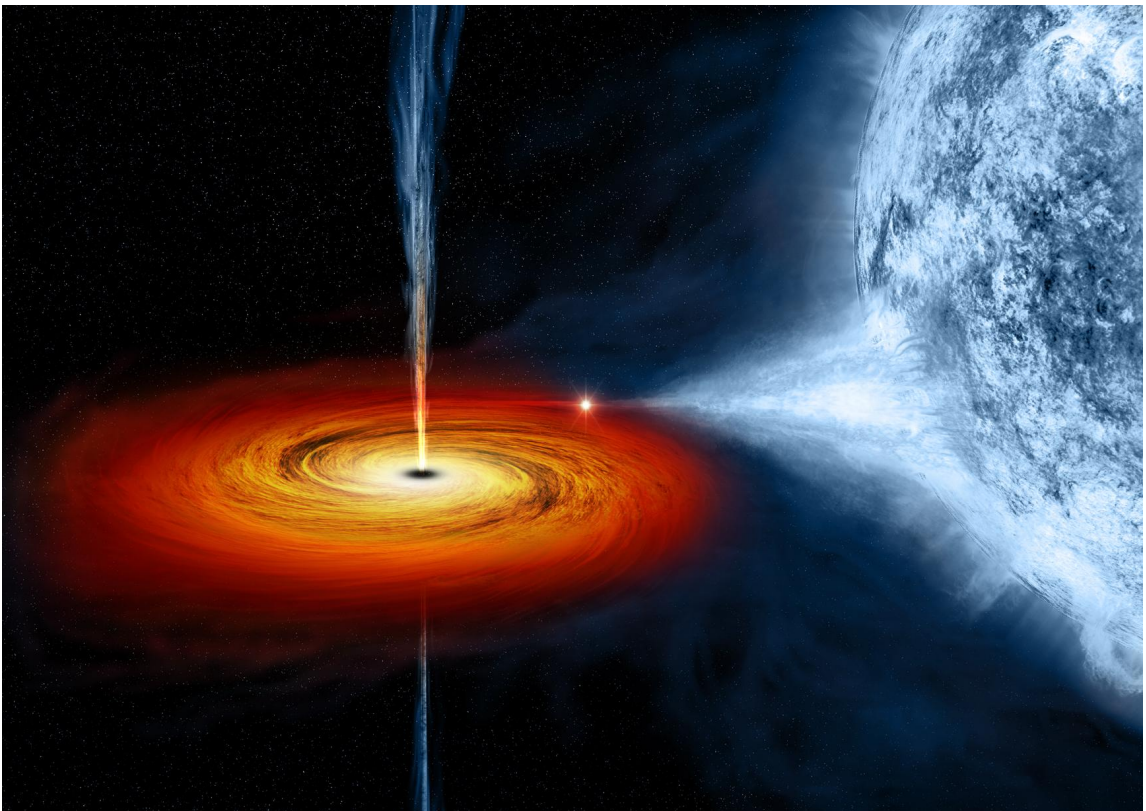
Let's say you have a blanket or a sheet if you strack it out it will get all flat then put a ball on the blanket it will create a dip in the blanket then put a smaller ball on the blanket or sheet you might notice that the smaller ball will roll to the bigger ball it's like a black hole pulling a planet in to it that's how gravity works. suns and planets and more things in in space have gravity to and that is why we orbit our sun and our moon orbits earth and black holes pull things to them to.

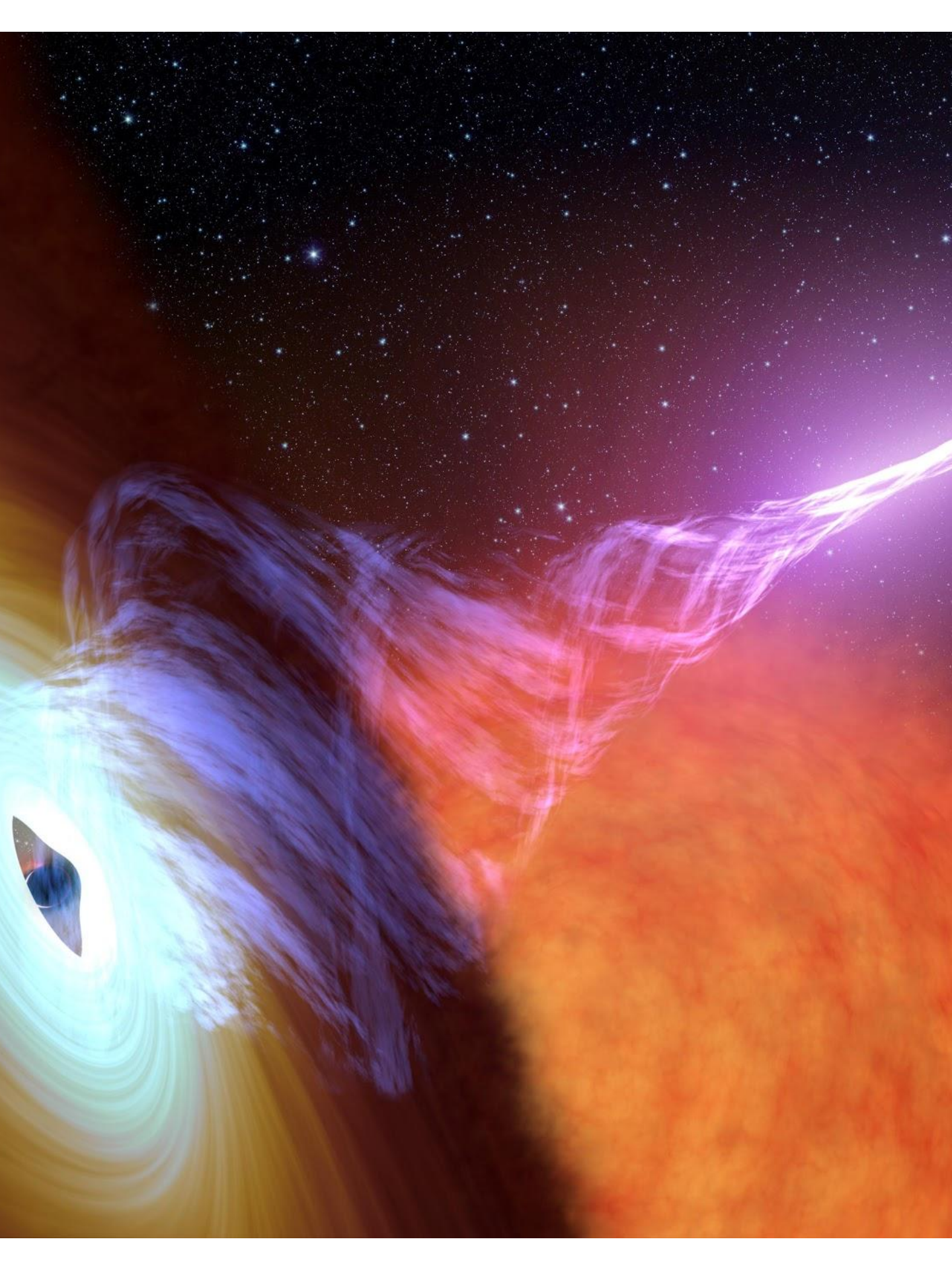


Black Holes

Where are Black Holes?

Big Black Holes are located in the center of every large solar system including ours. The closest supermassive black hole is 25,000 light years away it is in the center of the milky way galaxy a light year is how long light can travel in a year. Light travels 670,616,629 mph. Or 1079252848.181 mph. That is pretty far away.

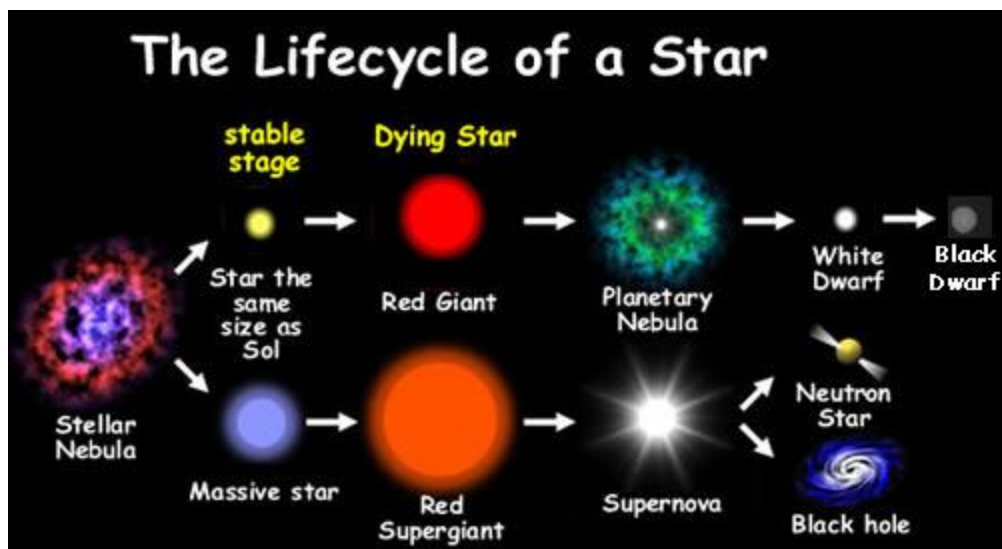


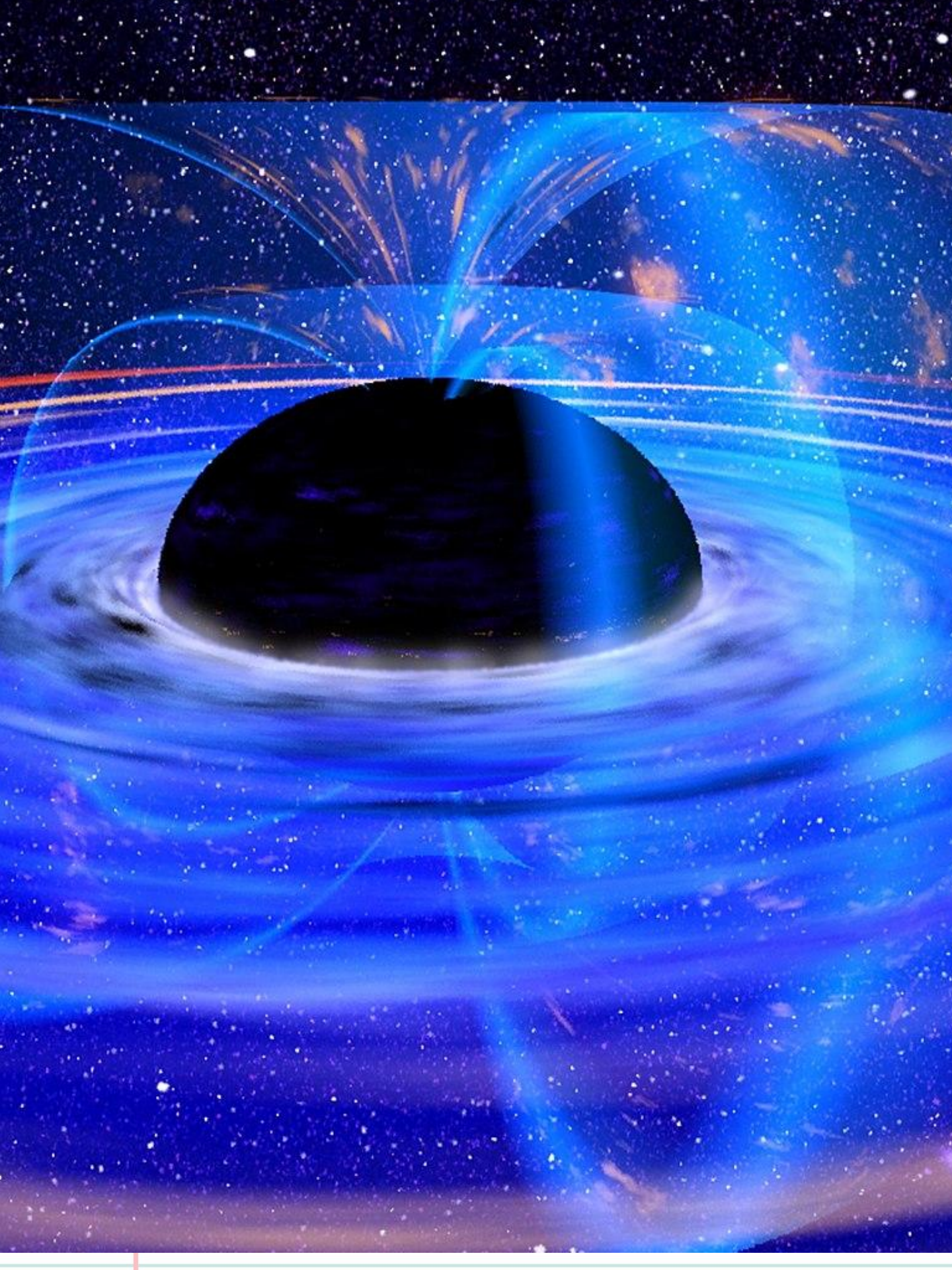


Black Holes

Black hole life cycle

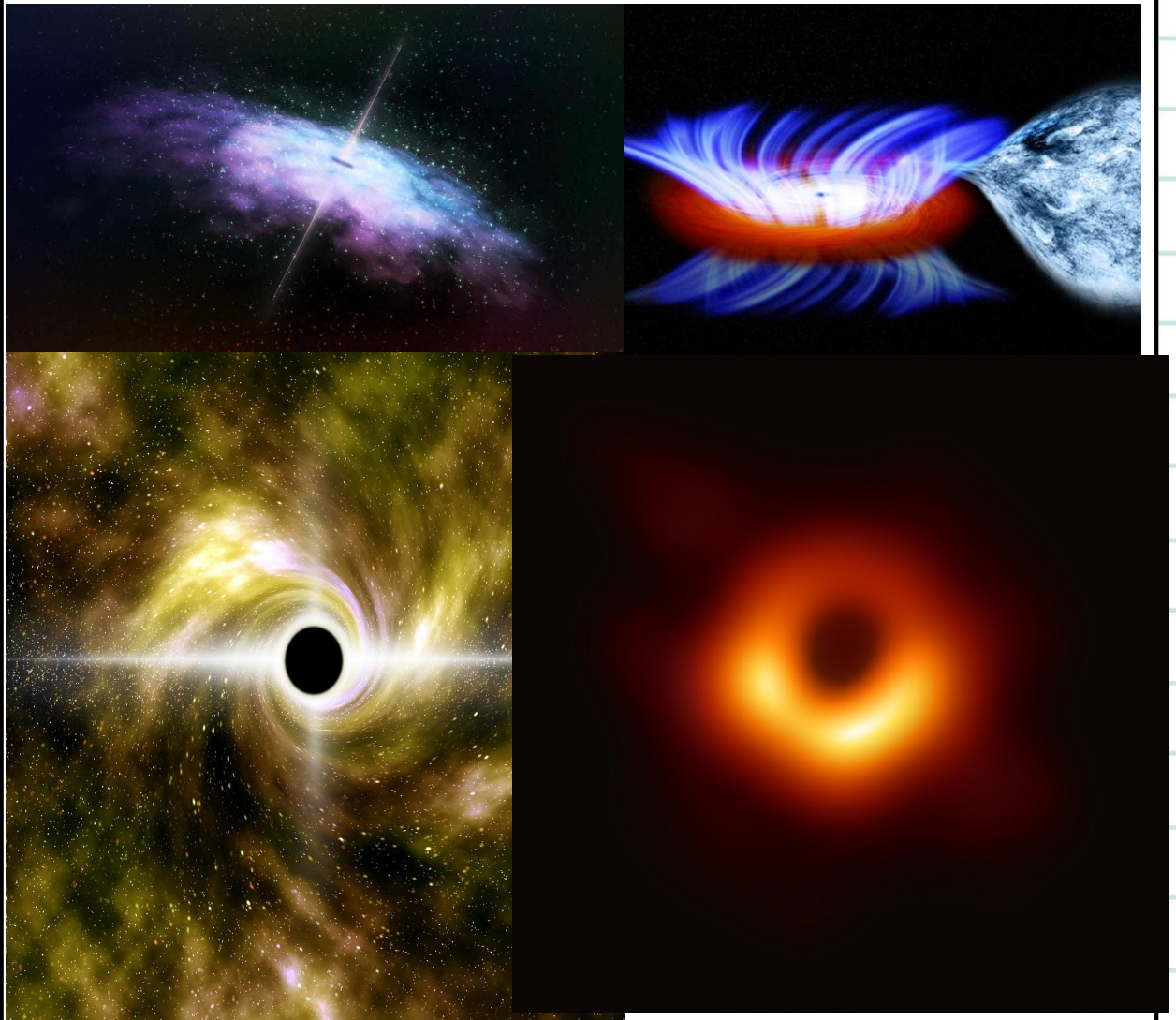
Black holes have life cycles but they are billions of years. First a stellar nebula creates a star. if the star is smaller like our sun then the star will turn into a red giant. red giants are not as hot as our sun but they are bigger. than the red giant will turn into a planetary nebula. then it will be a white dwarf. the last stage is a black dwarf. if the star is big it will turn into a red supergiant. then it supernovas. after that it will turn into a neutron star or a black hole.





Black Holes

Are amazing and mysterious things. there are still tons to learn about Like whats inside them and more and maybe one day you might find all the answers.



words to know

1. Light year how far light can travel in a year
2. Supernova When a star explodes
3. Red giant a very big red star
4. Red supergiant a very big star bigger than a red giant
5. White dwarf a small star but very dense
6. Black dwarf a dead star that has no light or heat
7. Neutron star a collapsed core of a red supergiant
8. Stellar nebula clouds made of hydrogen and helium