

A BLACK HOLE

region of space nothing can espace from.

DENSEST OBJECTS IN THE UNIVERSE

If the Earth turned into a blackhole, it could fit inside a marble!



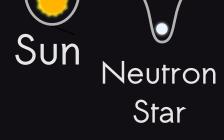


Their mass can range from:

> 2 solar masses

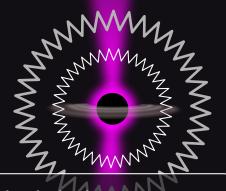
to

Millions of solar masses



Black Holes distort space-time so strongly they can capture light!

Collapsar



Black holes forming at the center of dying, fast rotating, massive stars drive powerful jets, causing extreme supernovae and long gamma-ray bursts.

Active Galactic Nuclei



Some Super massive Black holes at the center of galaxies feed on nearby gas.

They create powerful jets and bright emissions visible from the furthest

reaches of space.

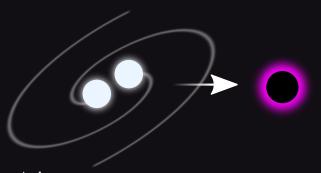
Gravitational Waves



Two black holes in a binary system radiate gravitational waves. This drives them together until they merge, which releases a graviational signal we can measure!

TWO EASY RECIPES FOR A BLACKHOLE

Kilonova



Neutron star merger.

Failed Supernova

Wait for a very (very) massive star to age and collapse under its own weight!

