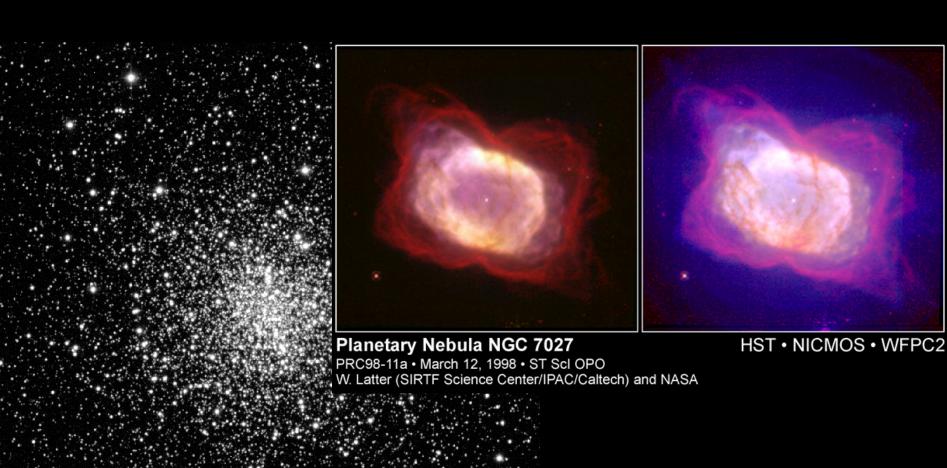
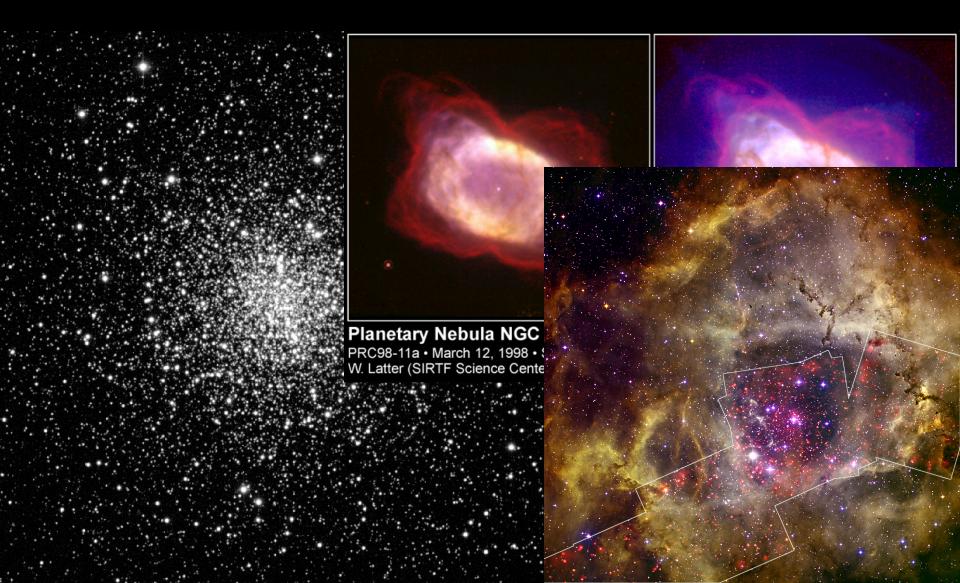
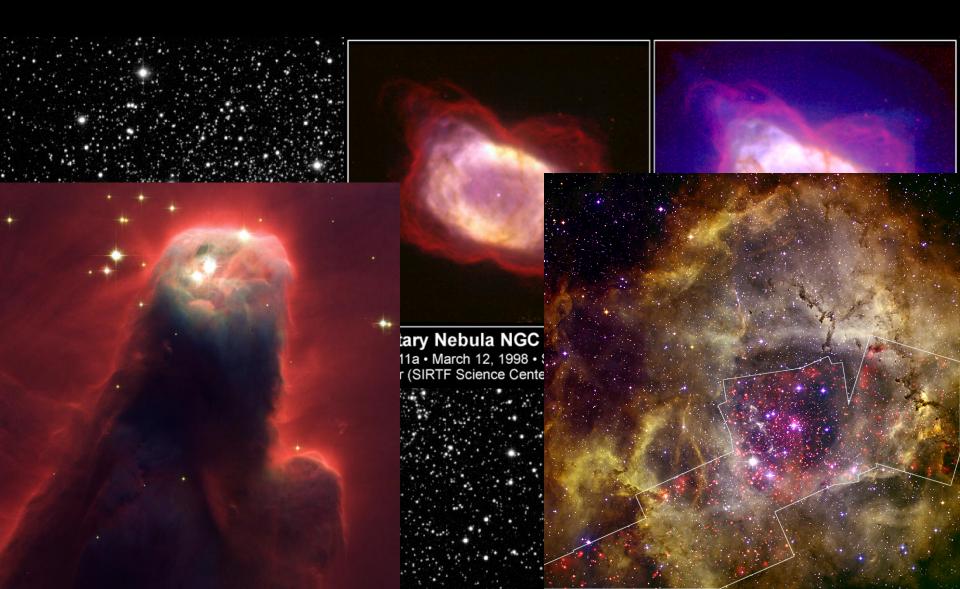
The Universe Speaks

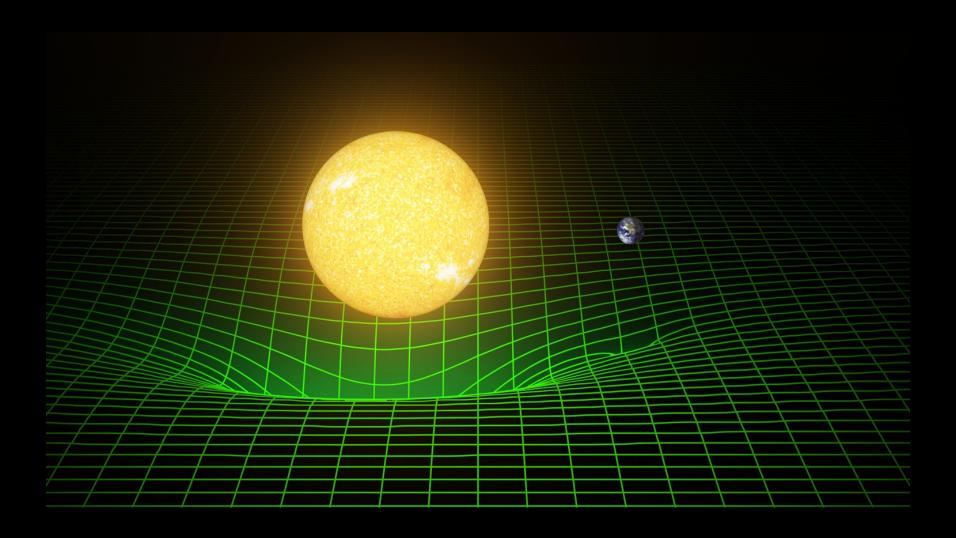
LIGO & the attempt to detect Gravitational Waves



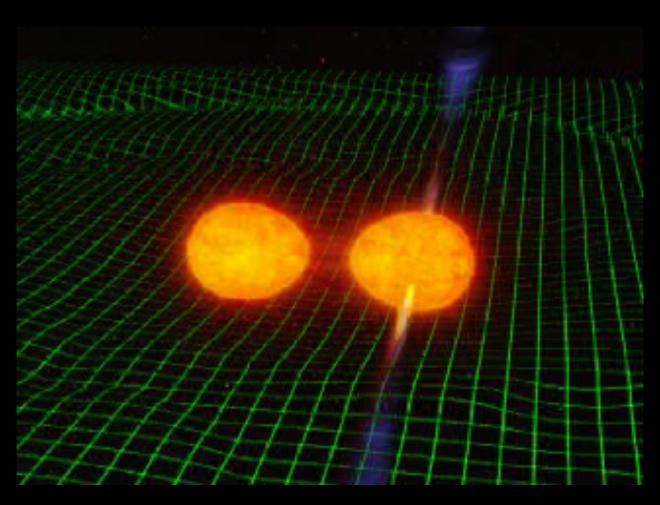








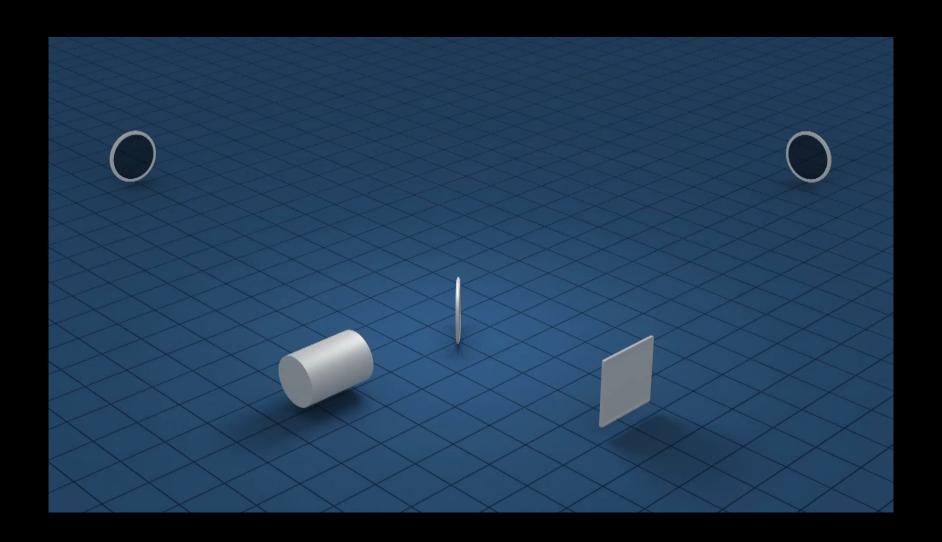
Gravitational Waves



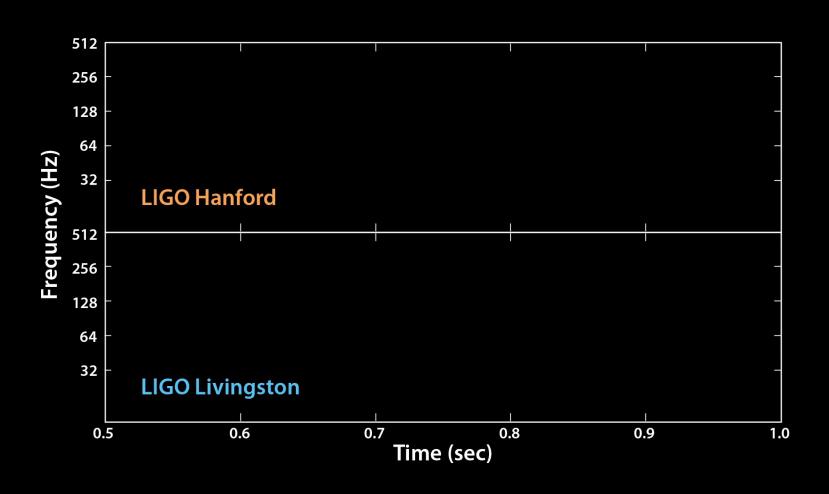
The Observatory



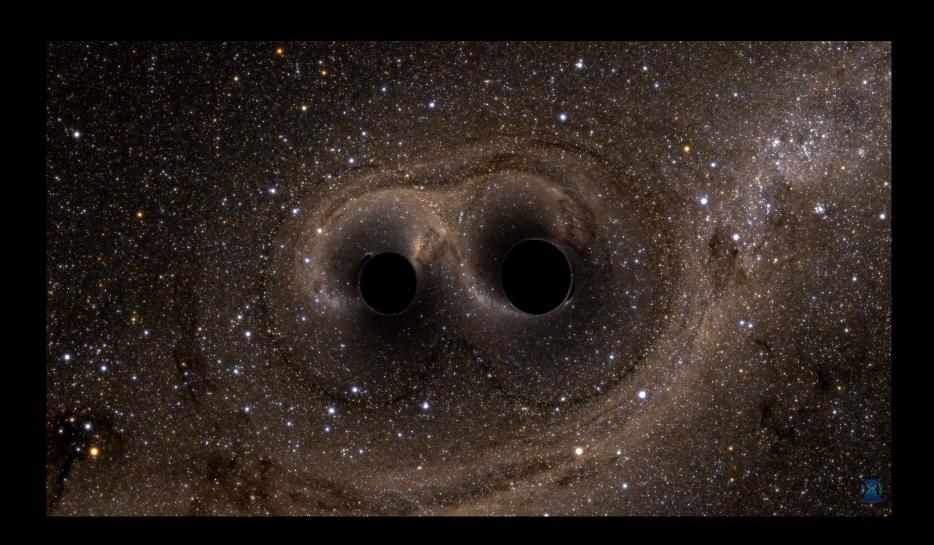
Laser Interferometer



GW150914



What if we were there?



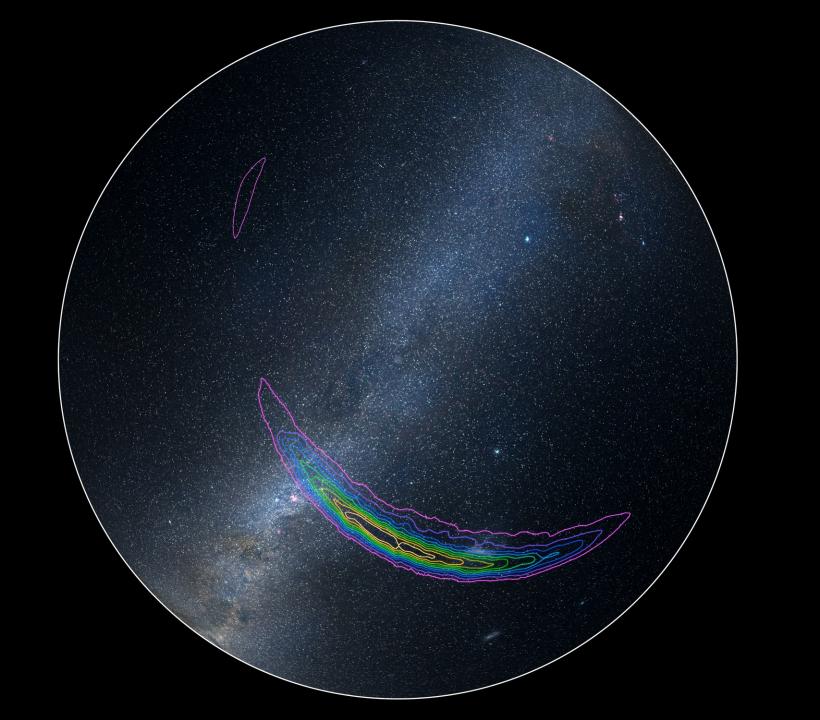
Two black holes collide

- Over a billion years ago
- 2 black holes (36 solar mass and 29 solar mass)
- 36 + 29 = 62 + 3 solar mass radiated
 - Equivalent to 1 million earth's energy
- More power than all the stars in the universe
- Just the beginning...other instruments such as LISA and the Pulsar Timing Array
- Scientific Discoveries are just BEGINNING!

Find out more

- ligo.caltech.edu/detection
- ligo.org

 Livingston Observatory open the 3rd Saturday of each month... visit ligo.caltech.edu/LA



If we could see space-time...

