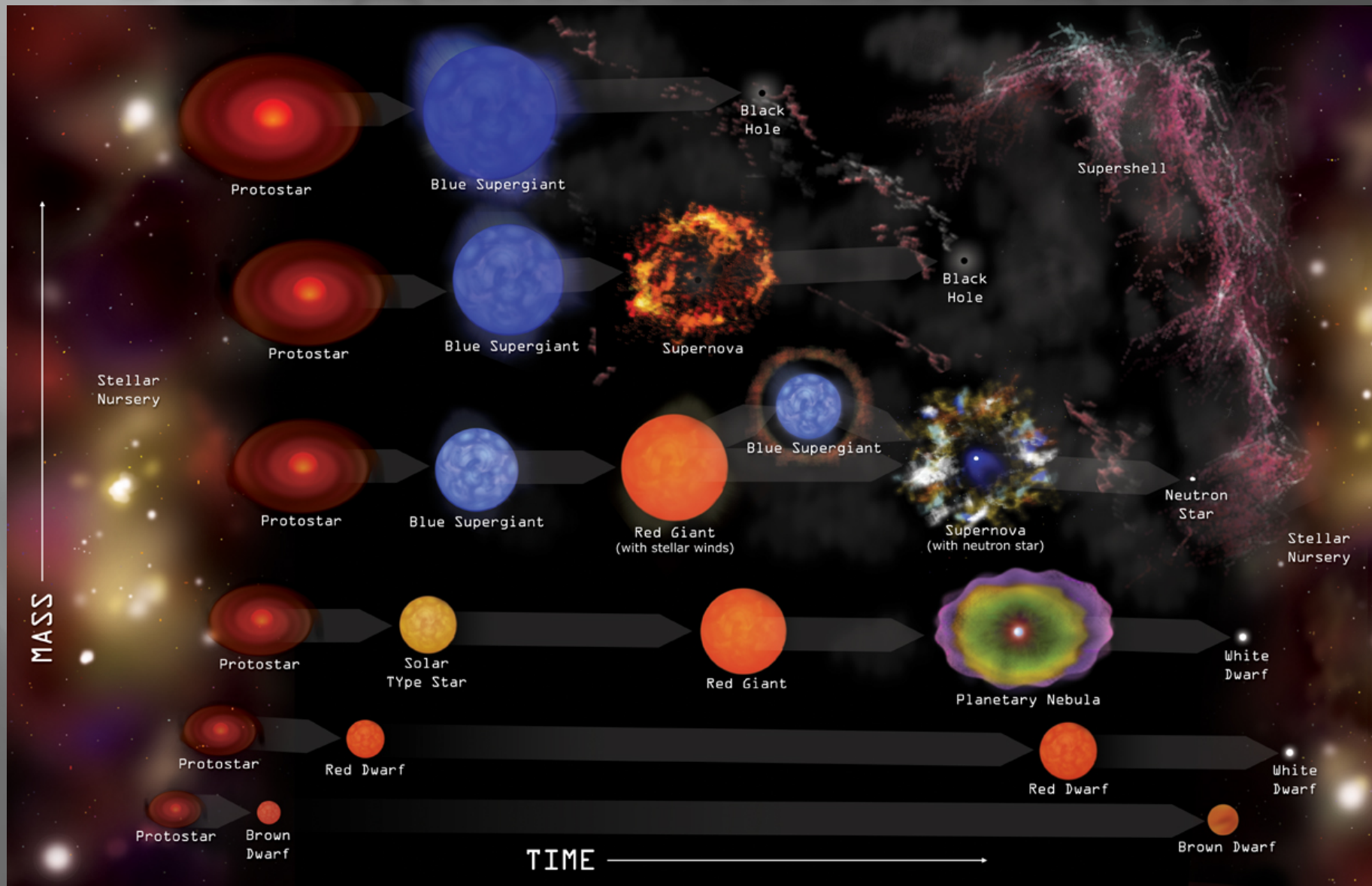
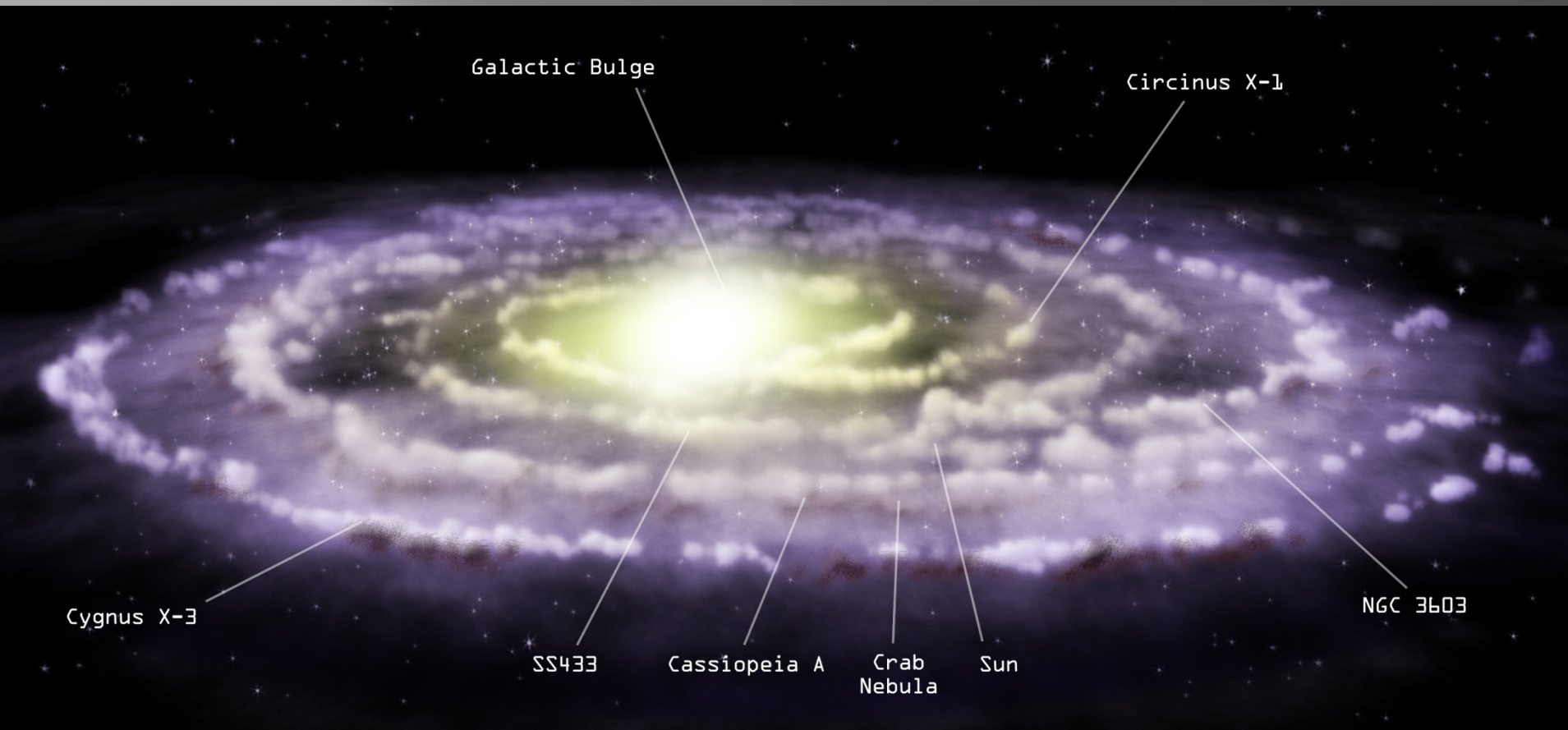


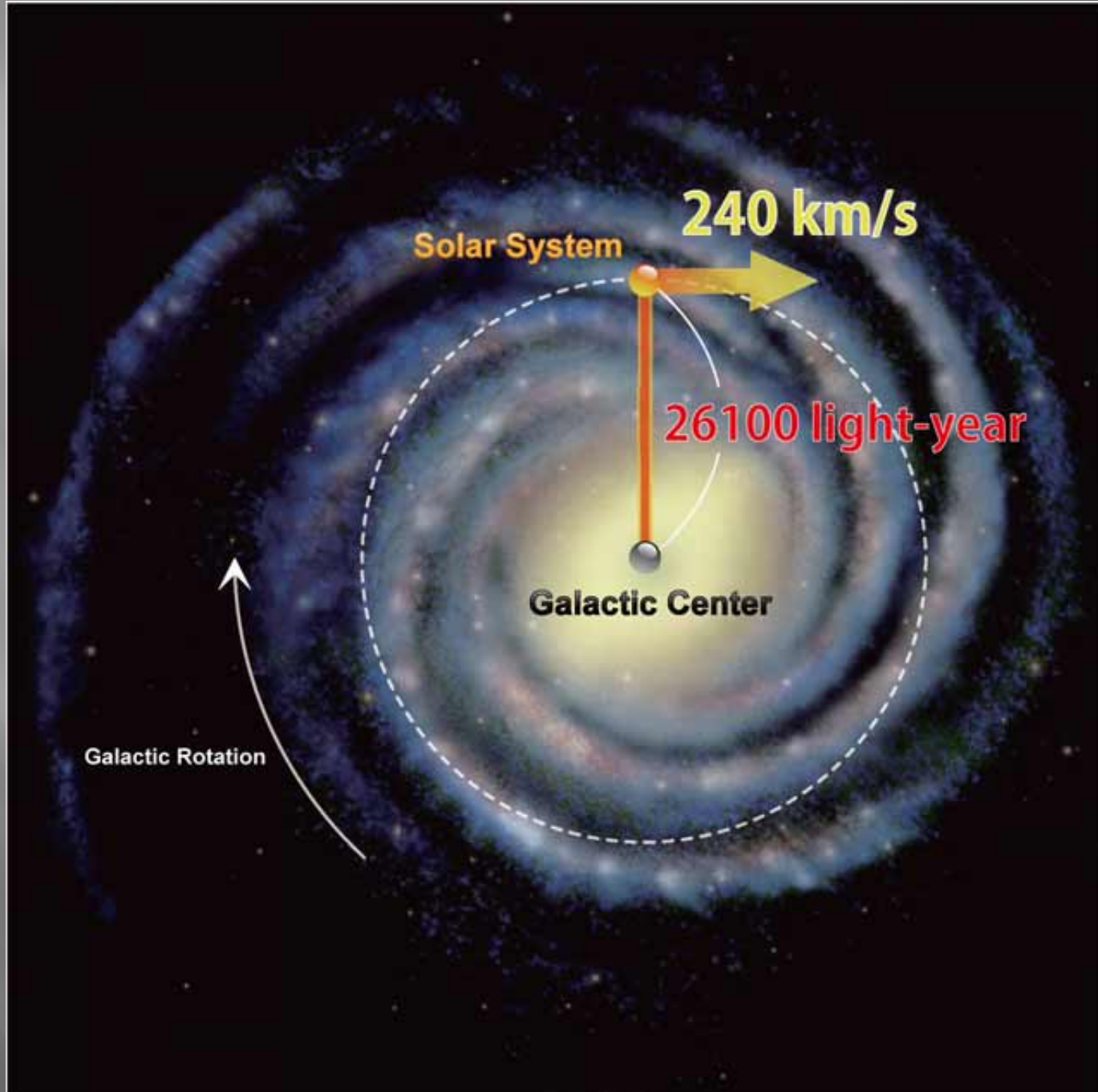
СВЕЗДЕНА ЕВОЛУЦИЈА





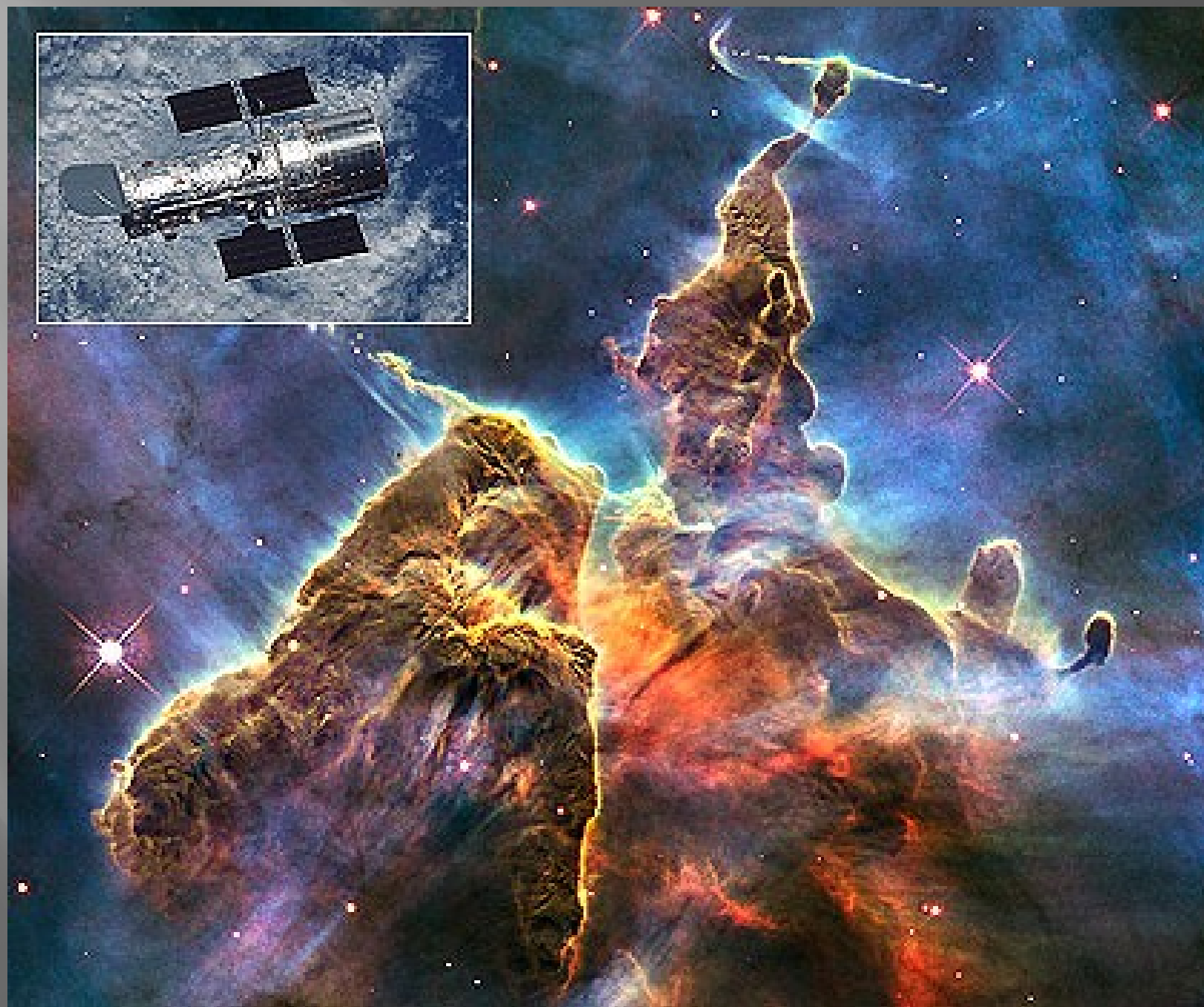


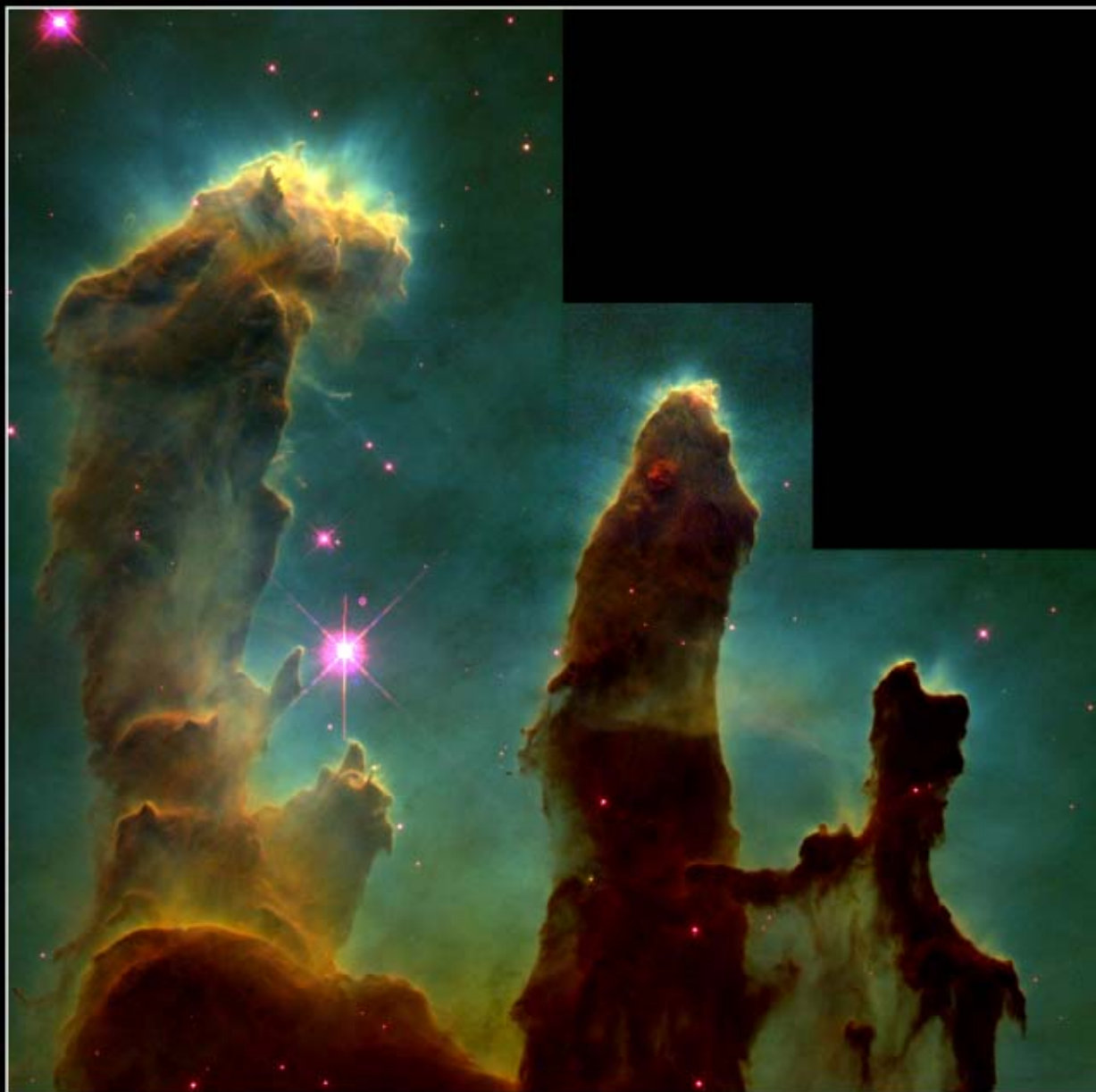










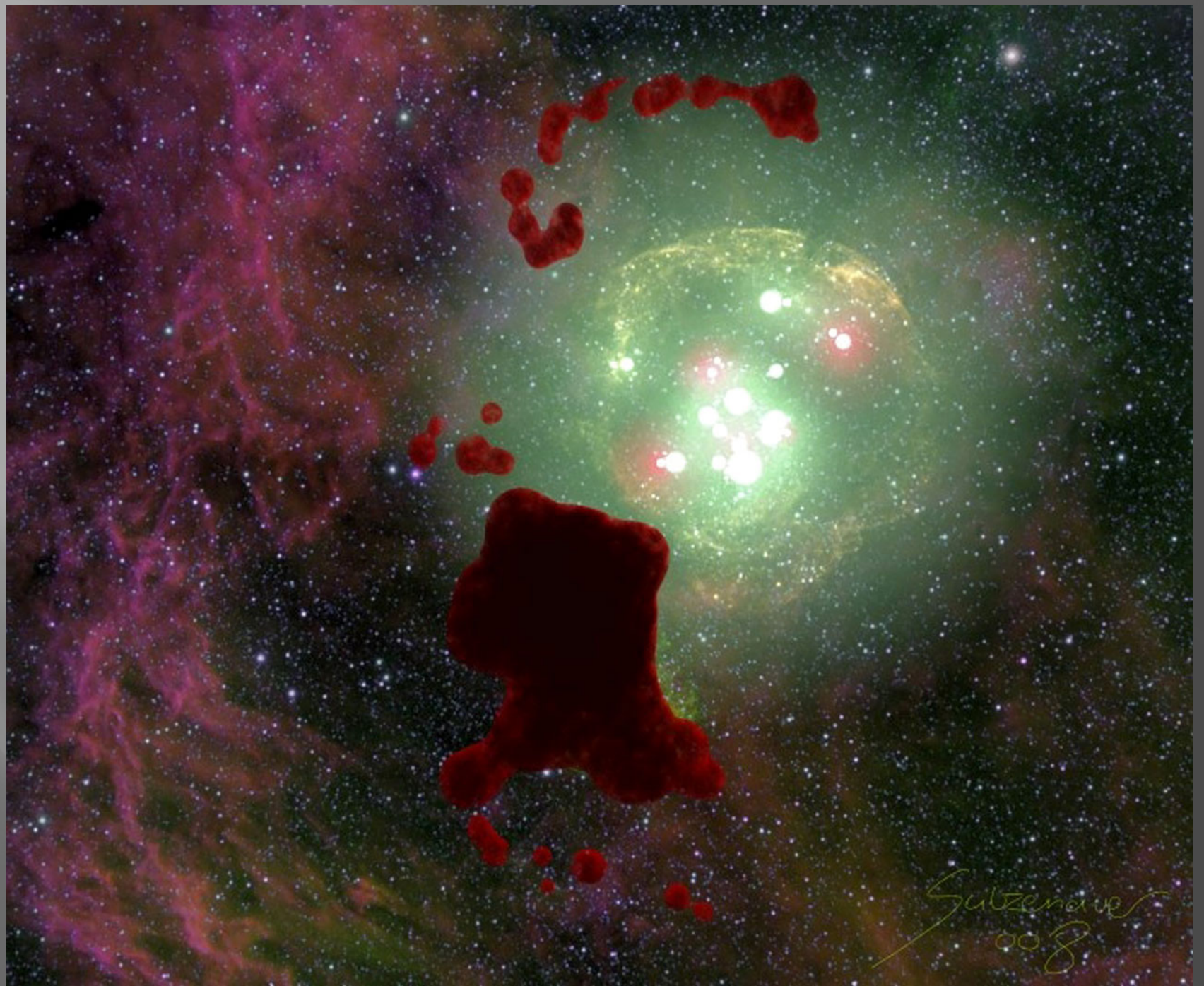


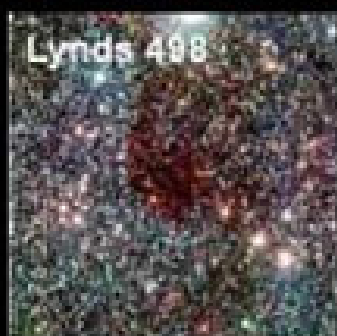
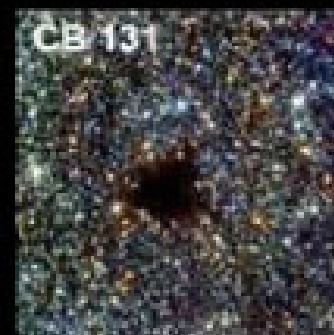
Gaseous Pillars • M16

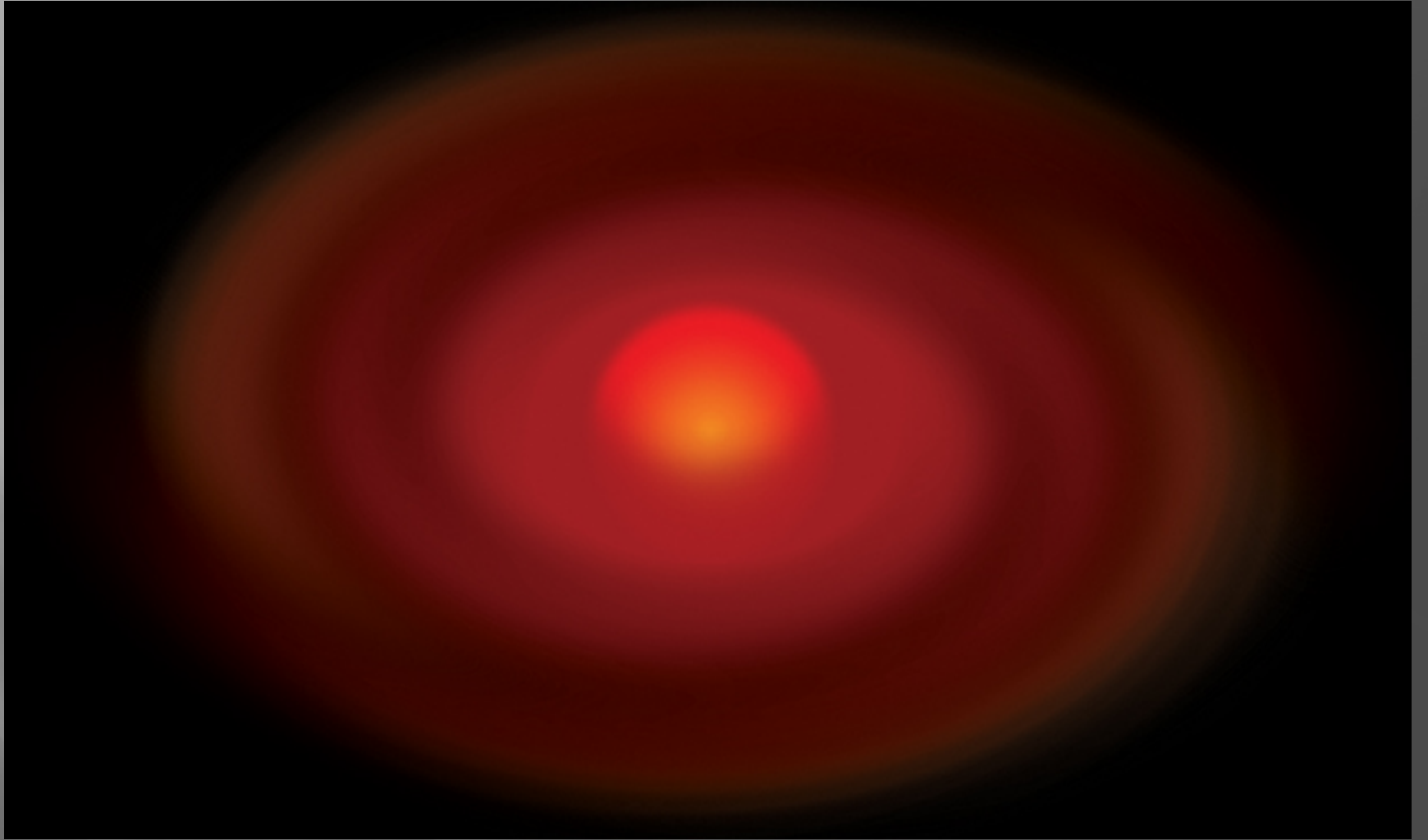
HST • WFPC2

PRC95-44a • ST ScI OPO • November 2, 1995
J. Hester and P. Scowen (AZ State Univ.), NASA

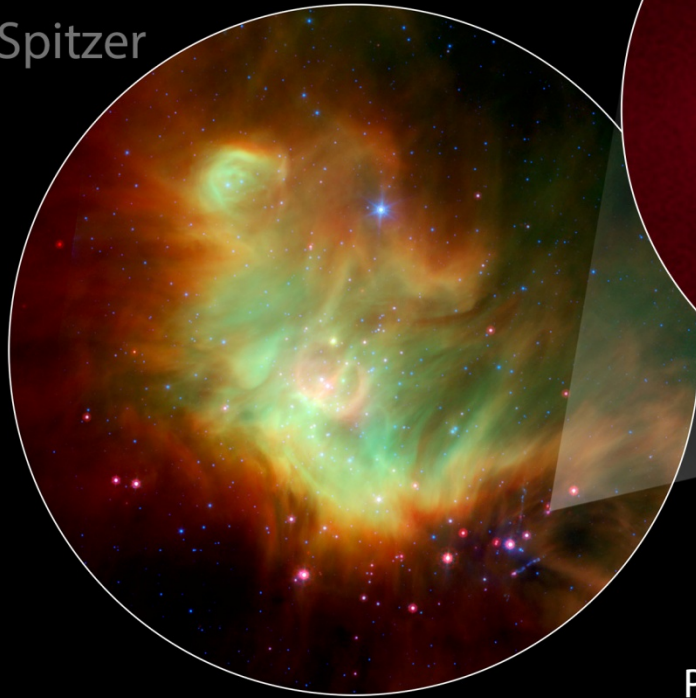




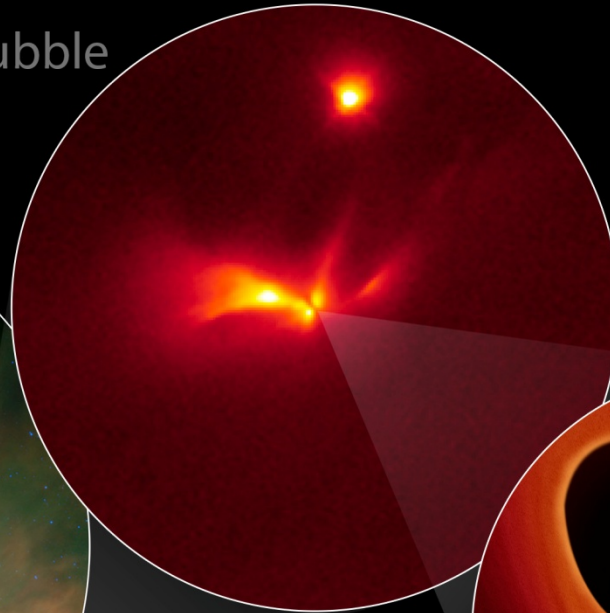




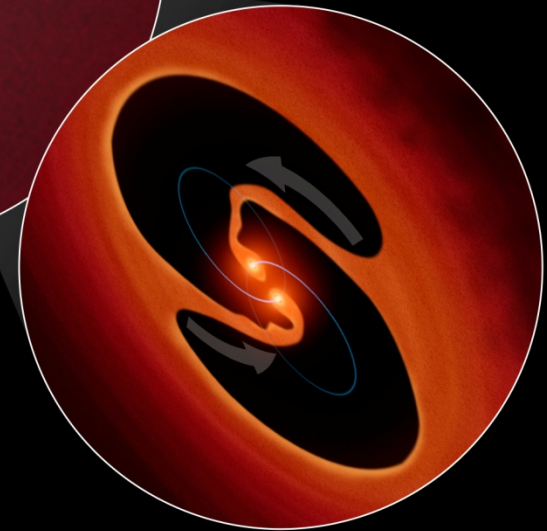
Spitzer



Hubble

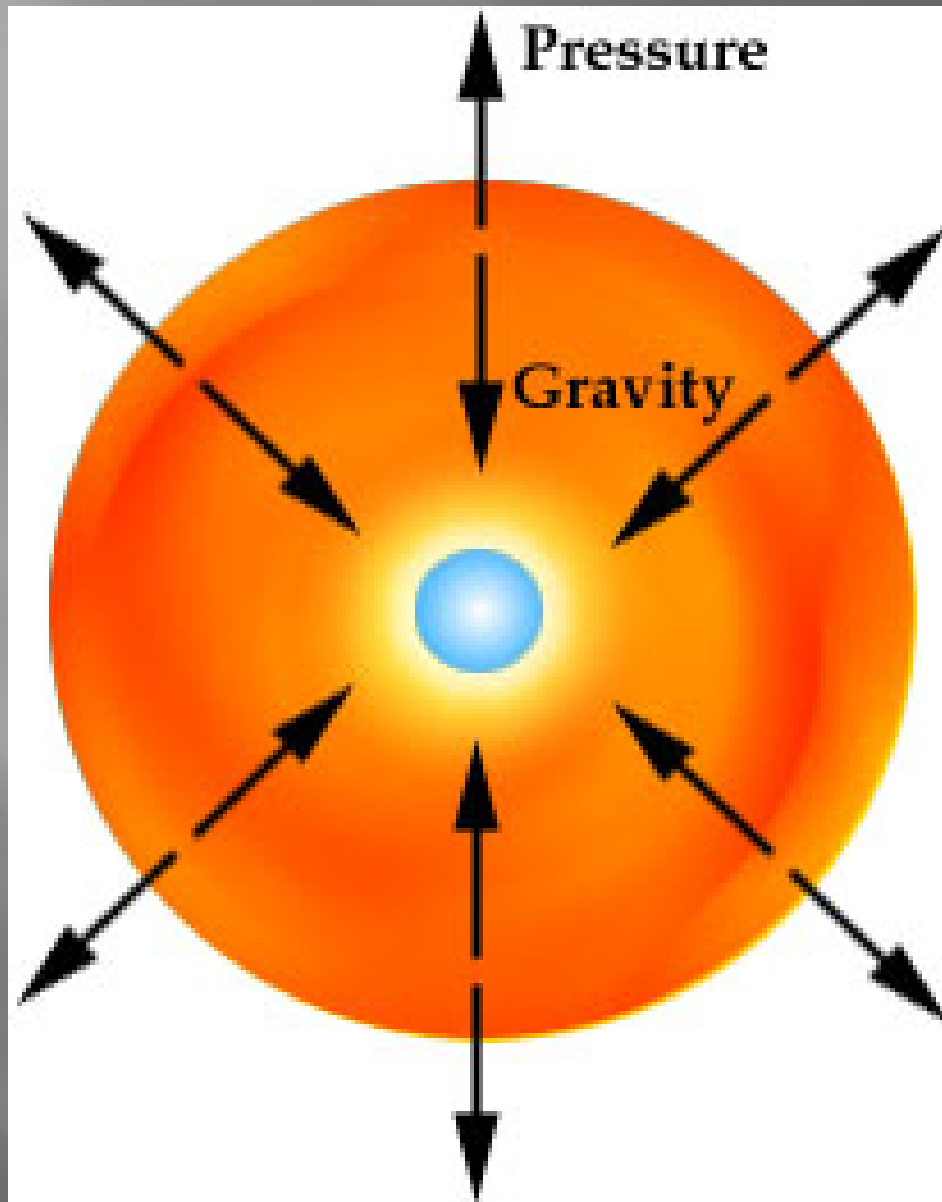


Artist's Concept

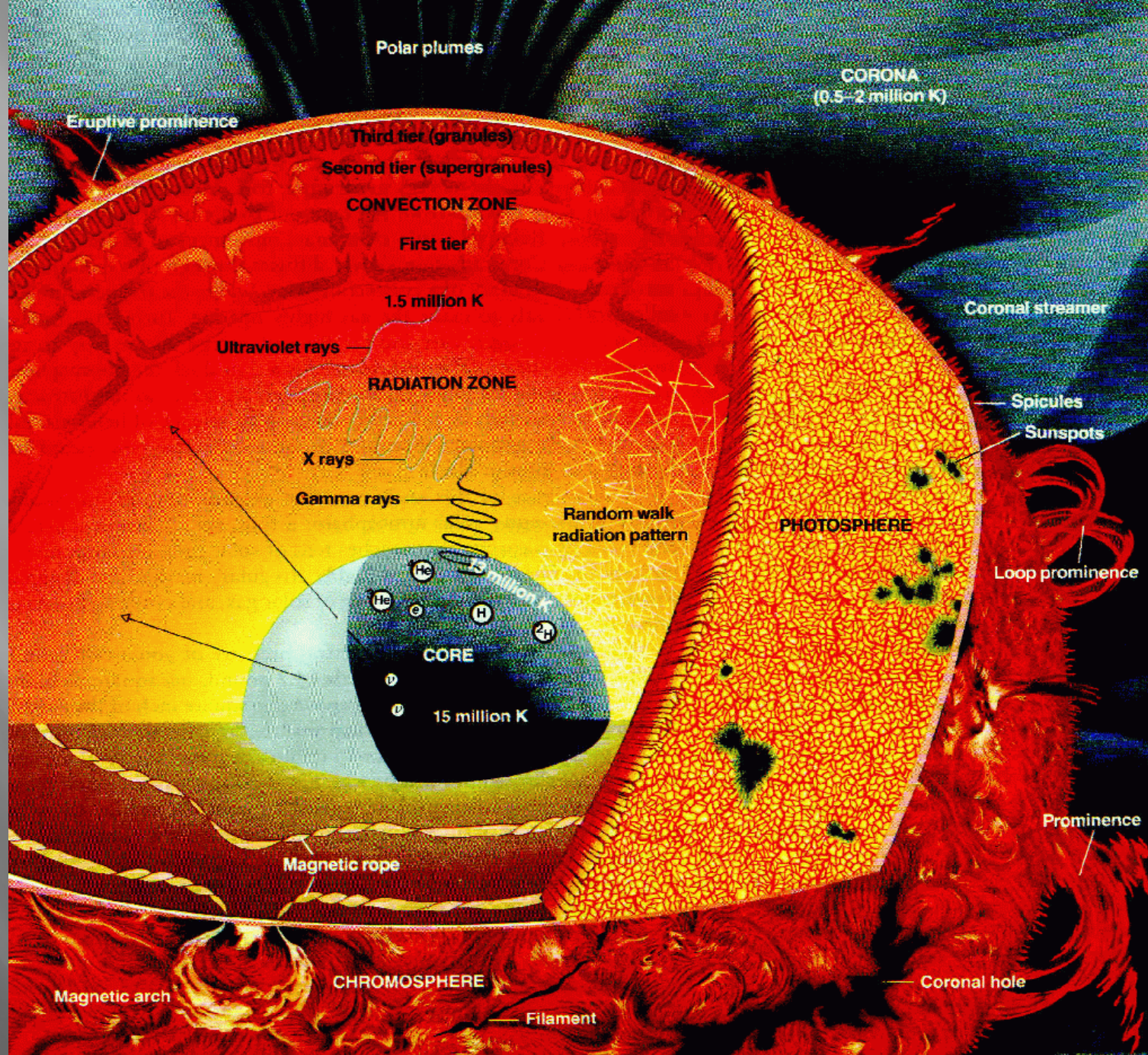


Protostar LRL 54361
NASA and ESA • STScI-PRC13-04a

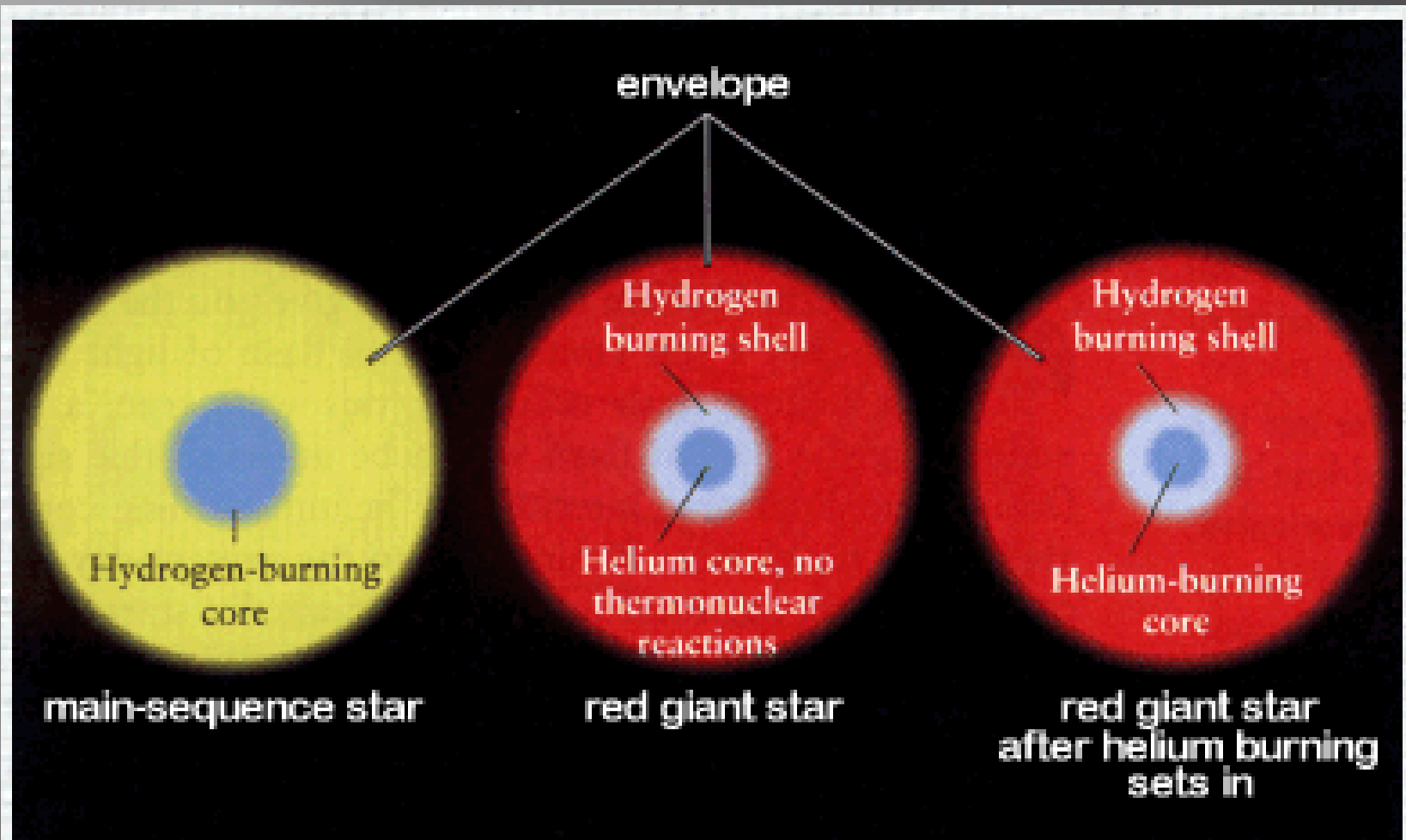




$$E=mc^2$$

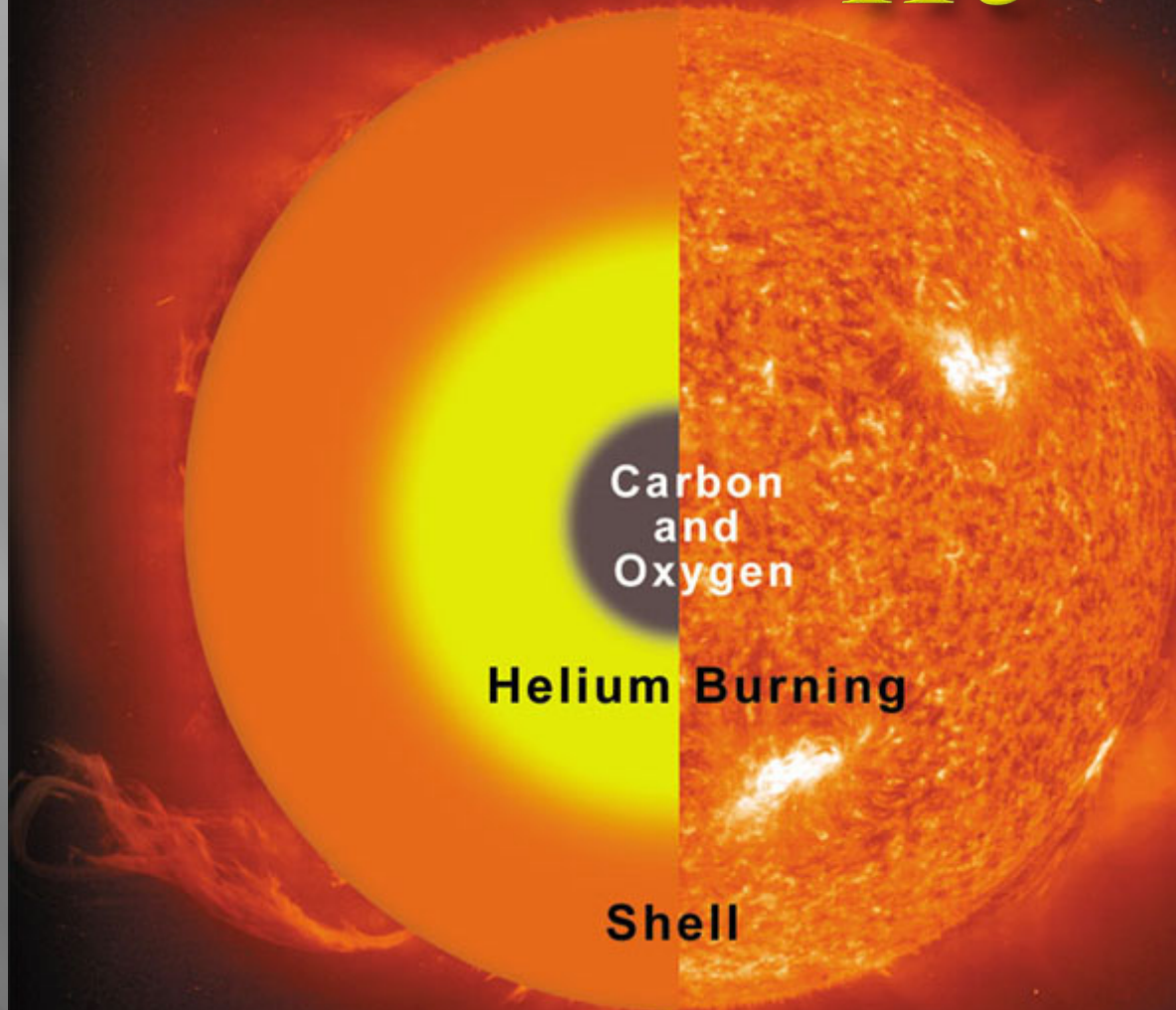


0,08 m_s - 1,4 m_s



As a star evolves, thermonuclear reactions occur at different locations within its interior.

Red Giant Star



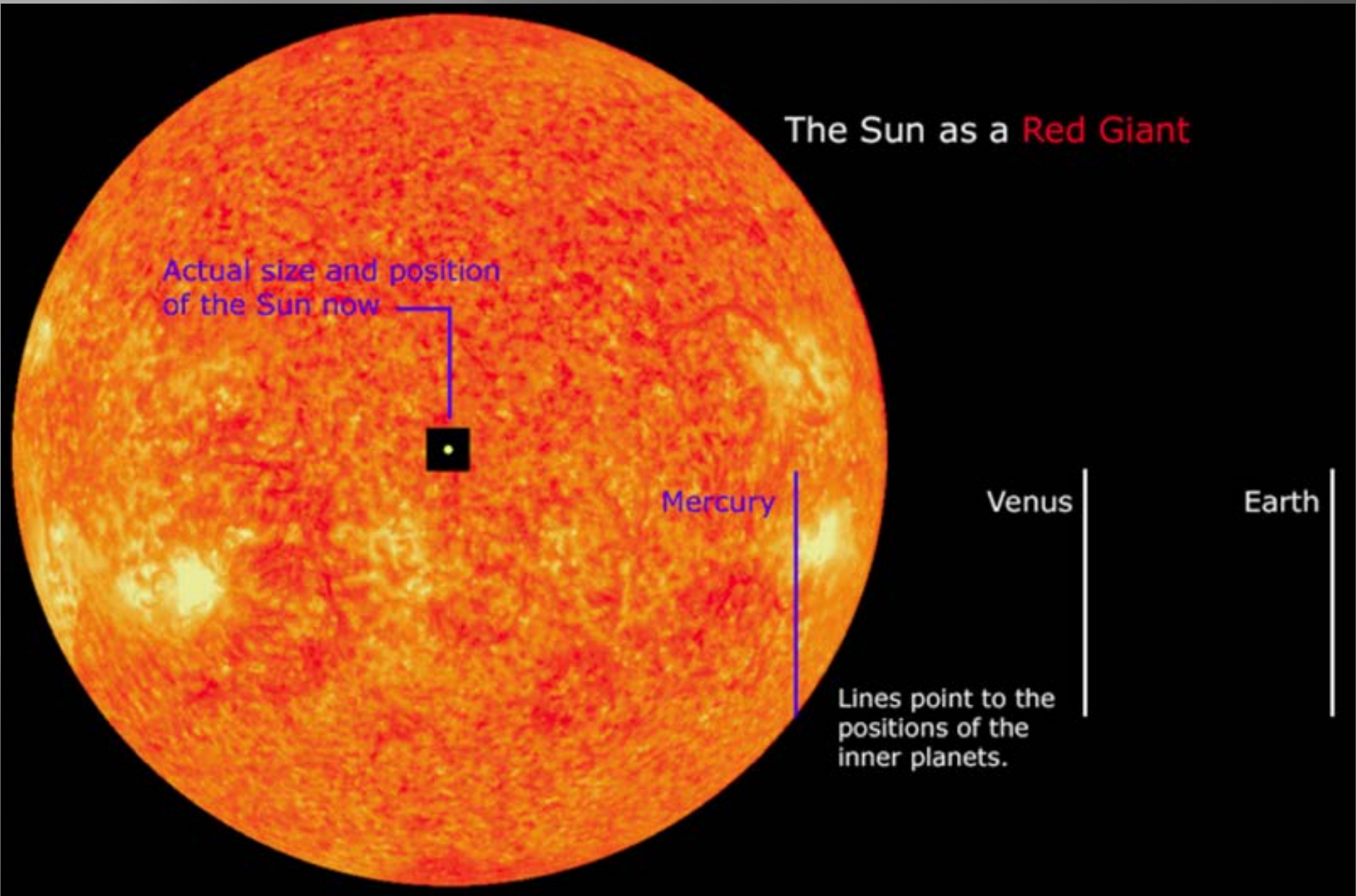
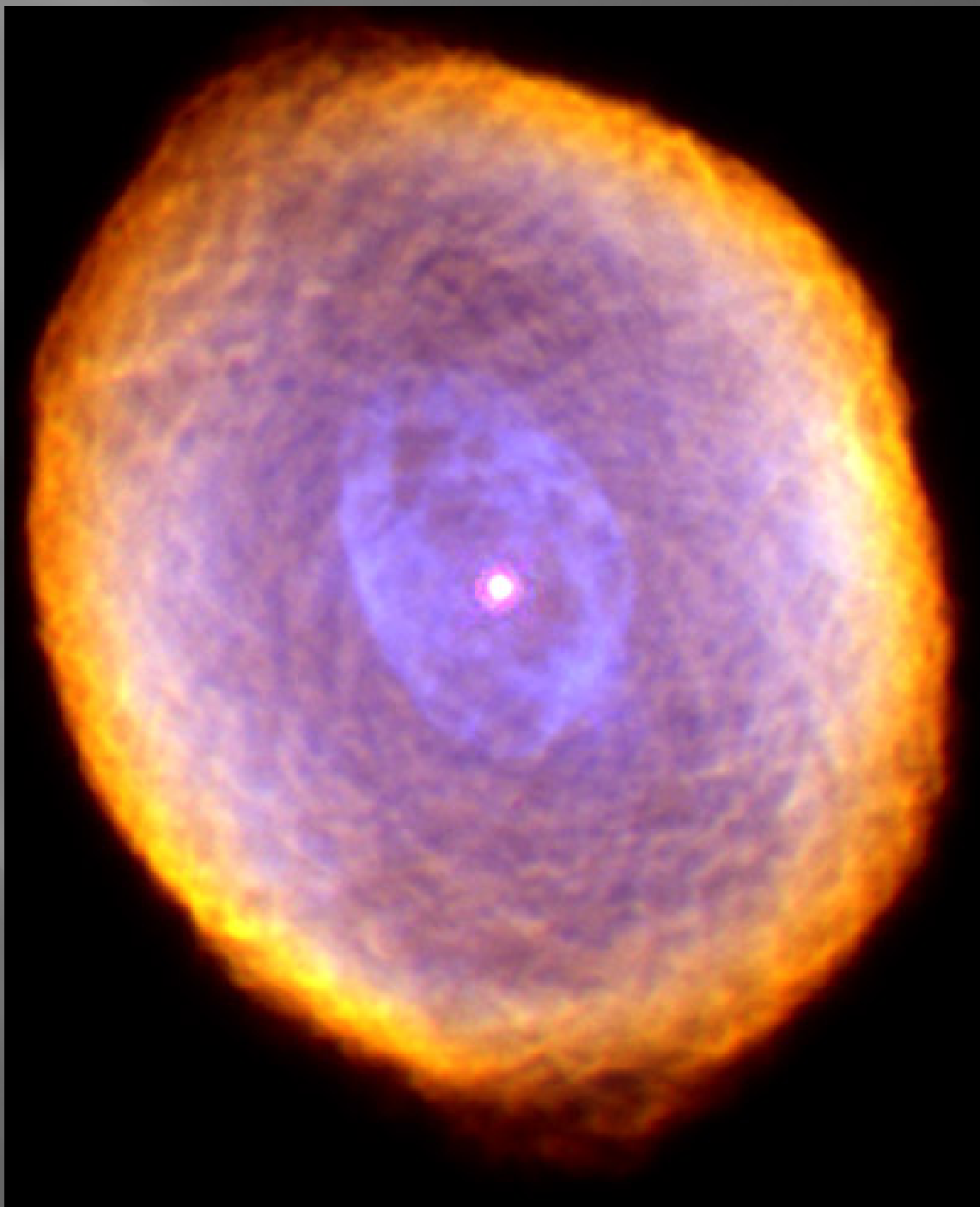
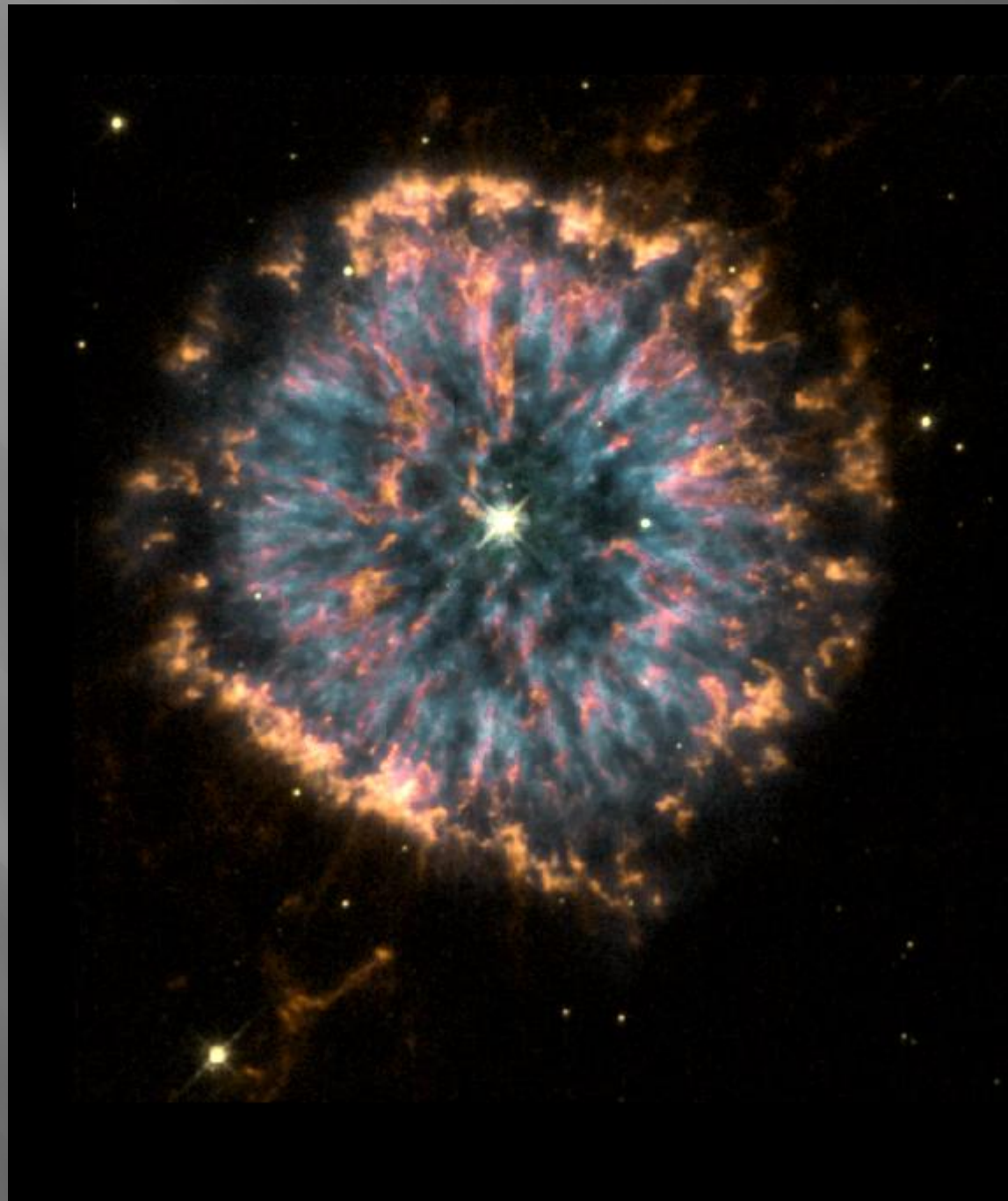


Figure 2 – The Sun as a red giant star.

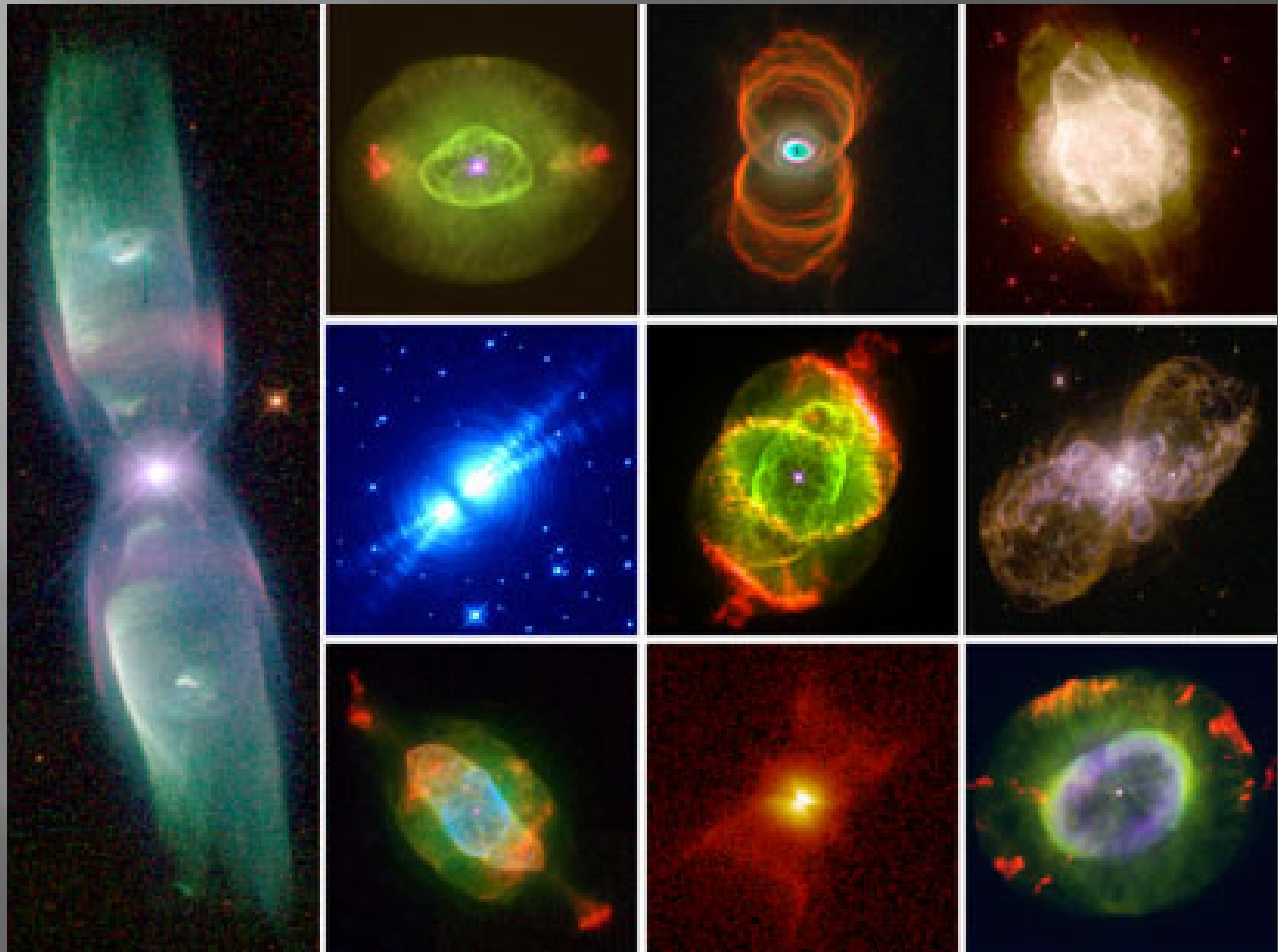


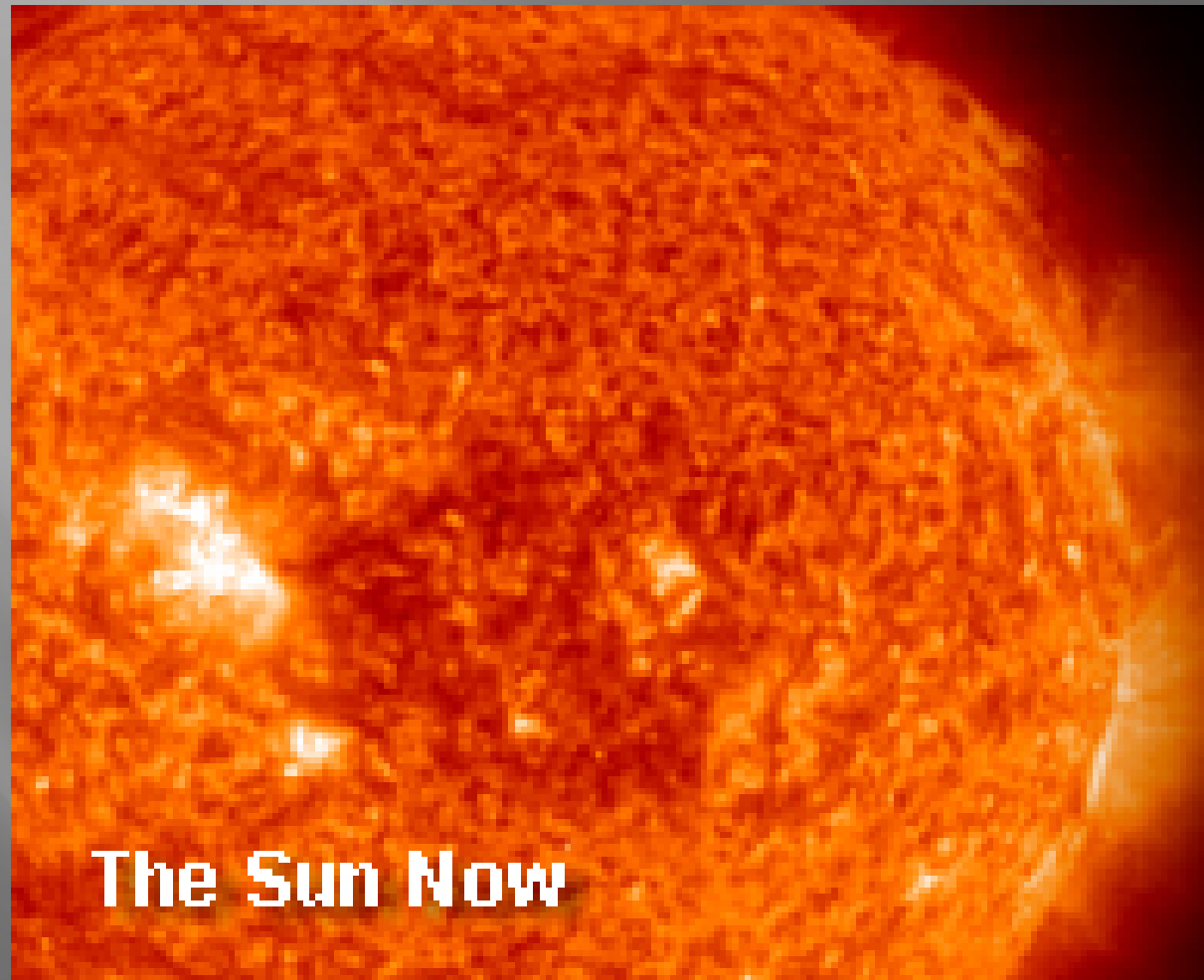




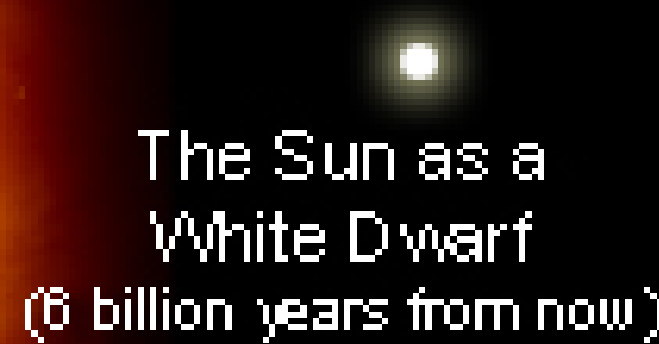








The Sun Now



**The Sun as a
White Dwarf
(6 billion years from now)**

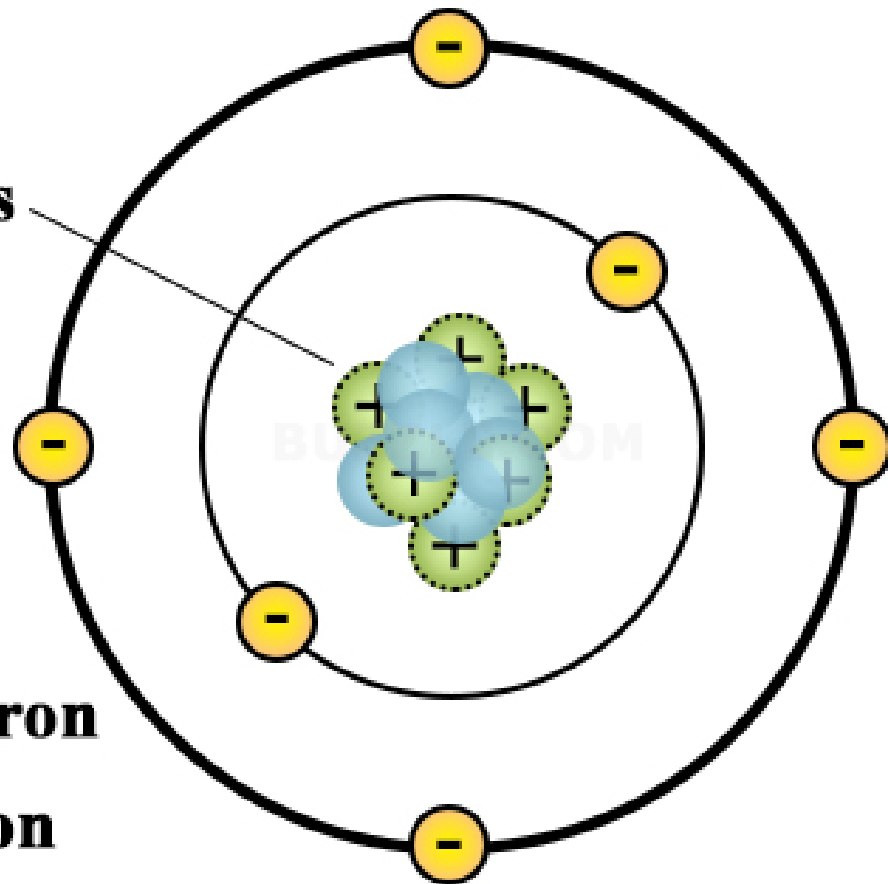
nucleus

 **electron**

 **proton**

 **neutron**

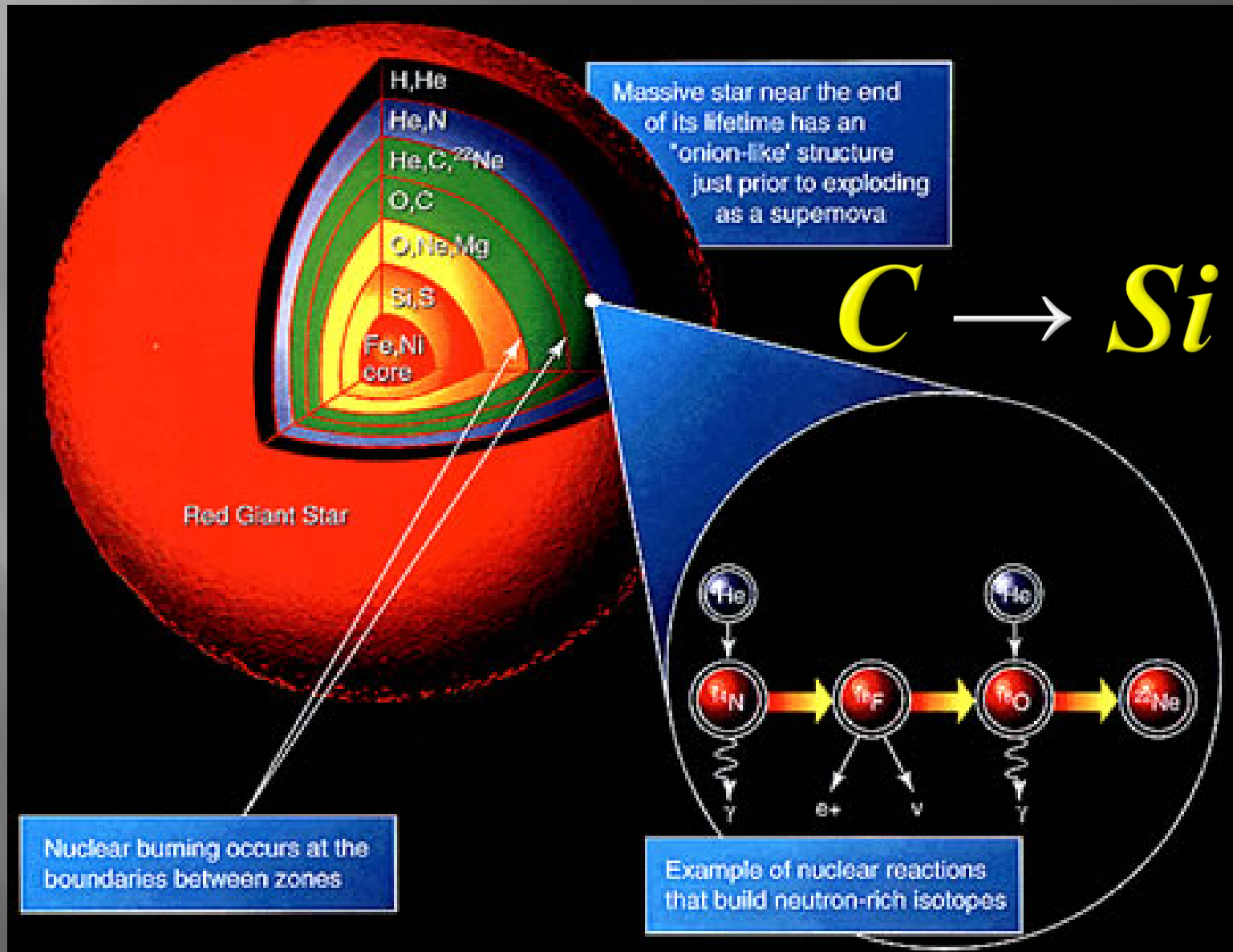
Atom Particles



Бело цуце

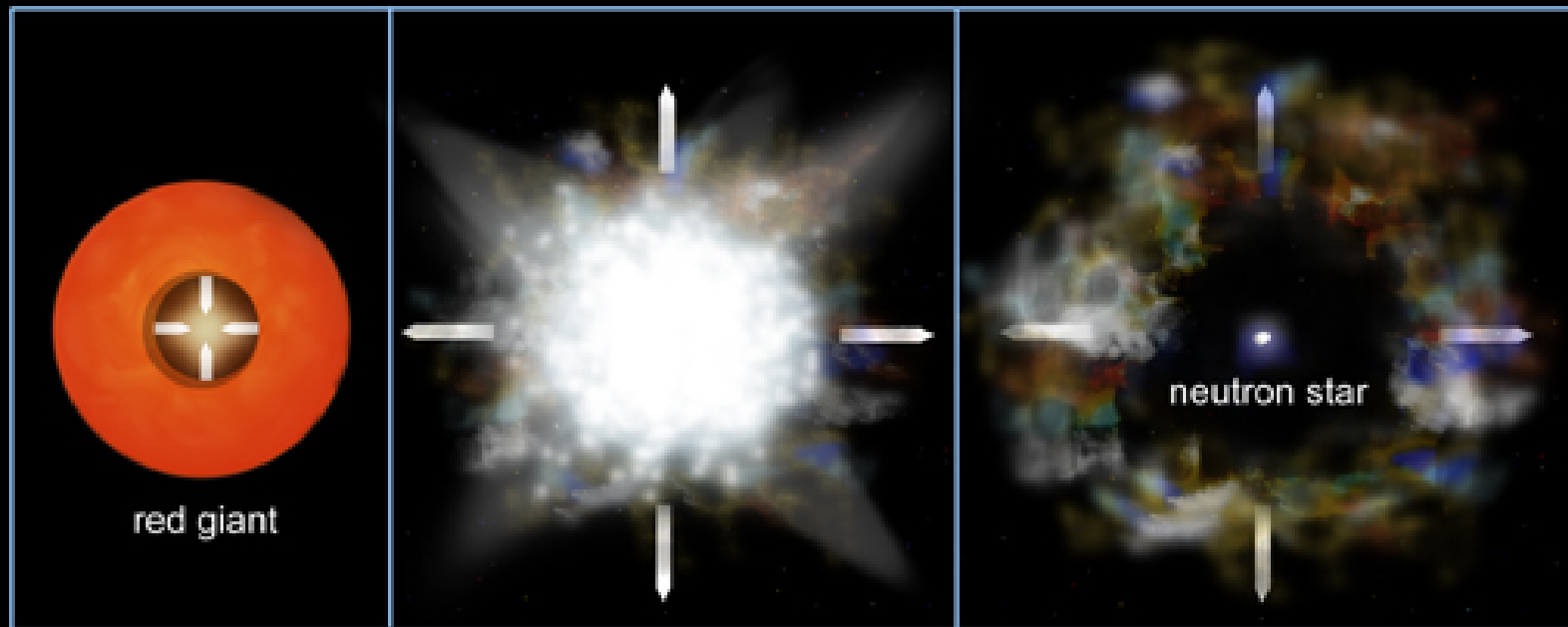


$1,4 m_s - 3 m_s$

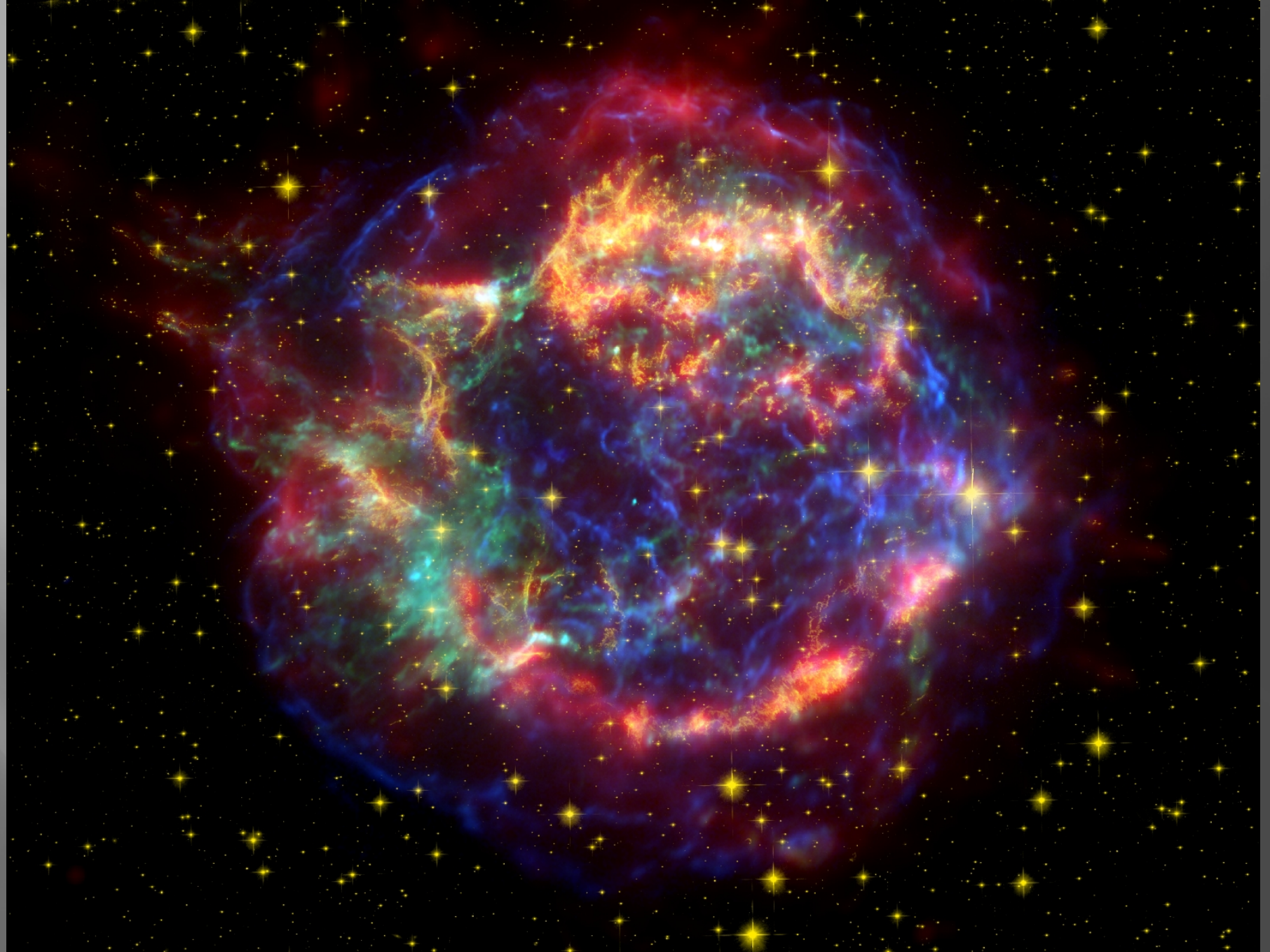


Birth of a Neutron Star and Supernova Remnant

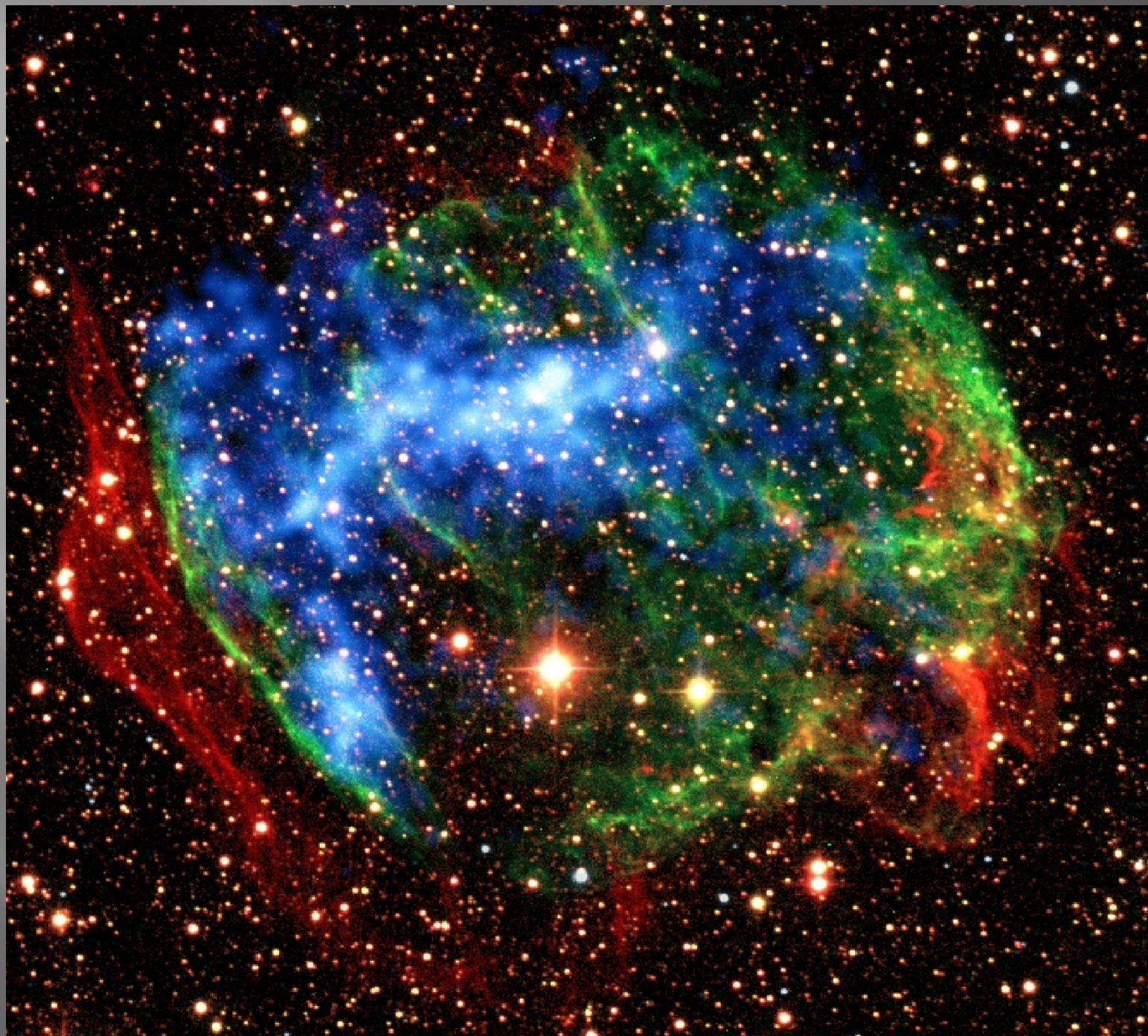
(not to scale)

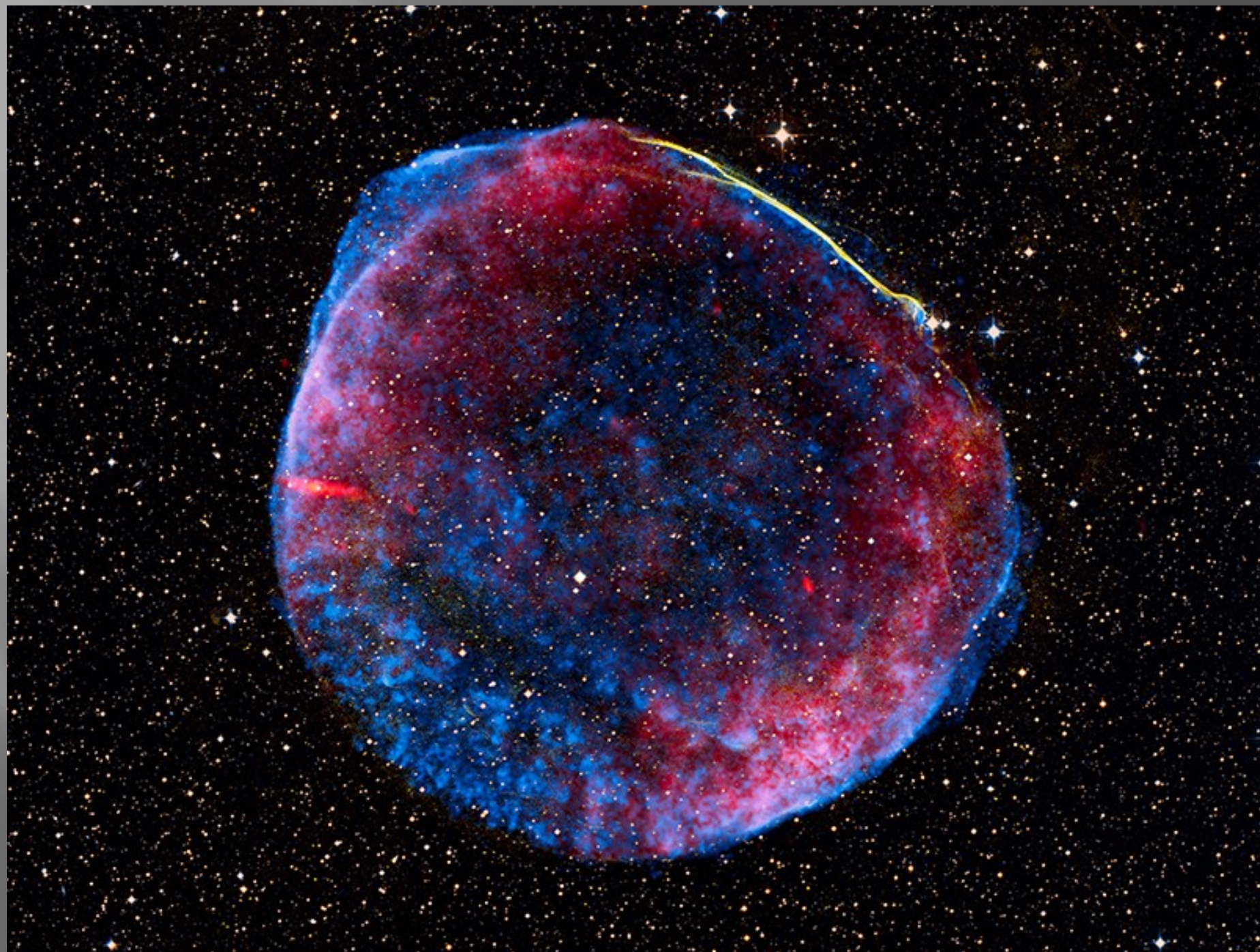


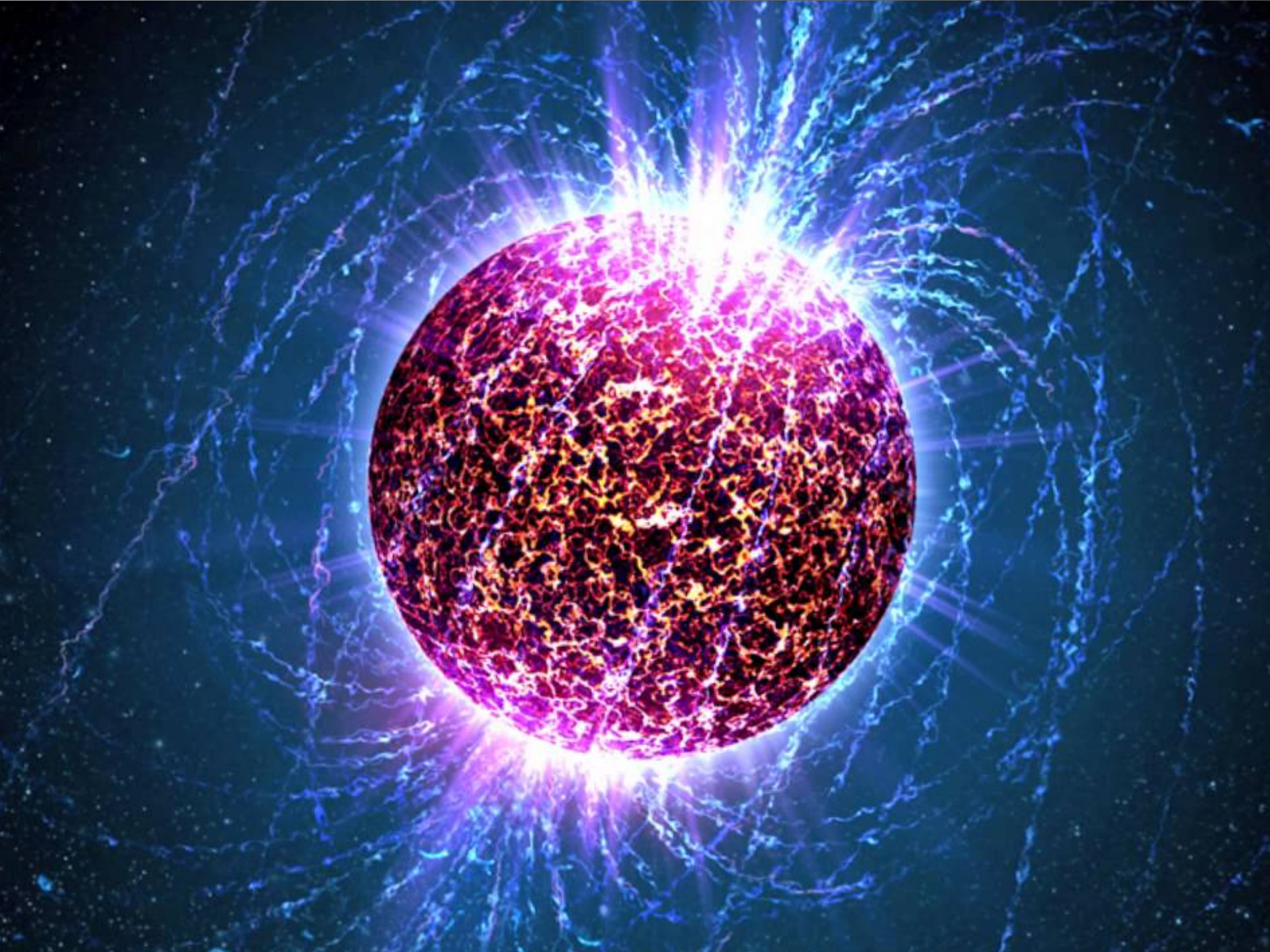
Core Implosion → Supernova Explosion → Supernova Remnant







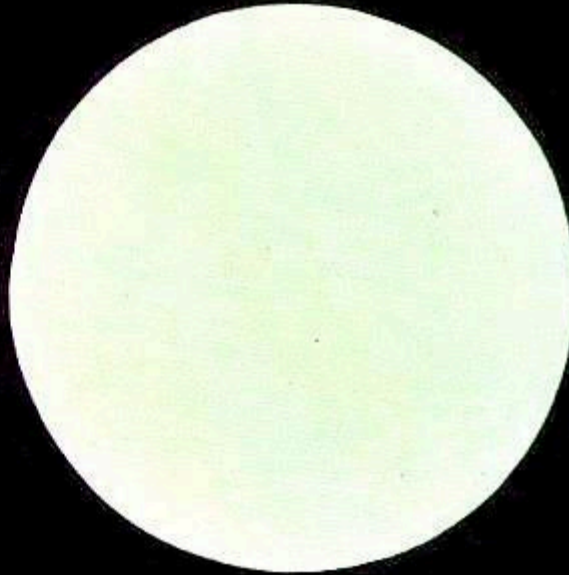




EARTH



WHITE DWARF



NEUTRON STAR



Earth

A composite image showing a cityscape of Vancouver, including the city skyline, the harbor, and the surrounding mountains. A massive, dark, textured sphere, labeled 'Neutron Star', is superimposed in the sky, partially obscuring the horizon. The sphere has a grainy, cratered surface. The text 'Neutron Star' is centered on the sphere in white. The text 'Vancouver' is placed in the lower-left area of the image, over the city skyline, in white.

Neutron Star

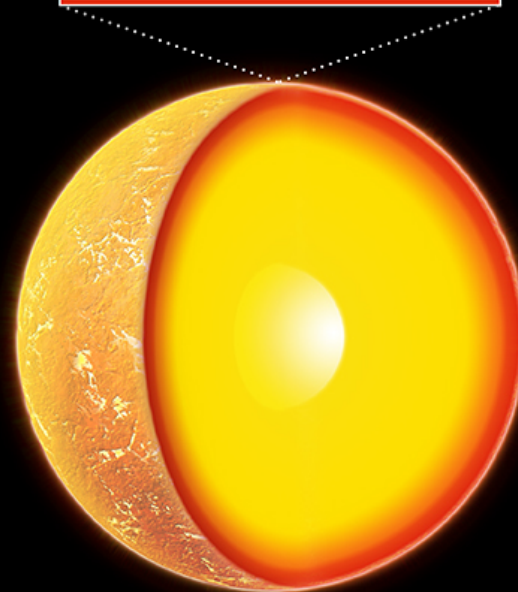
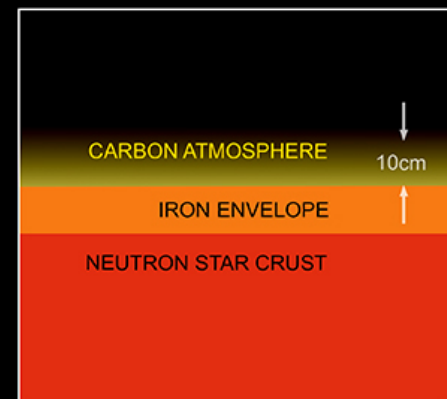
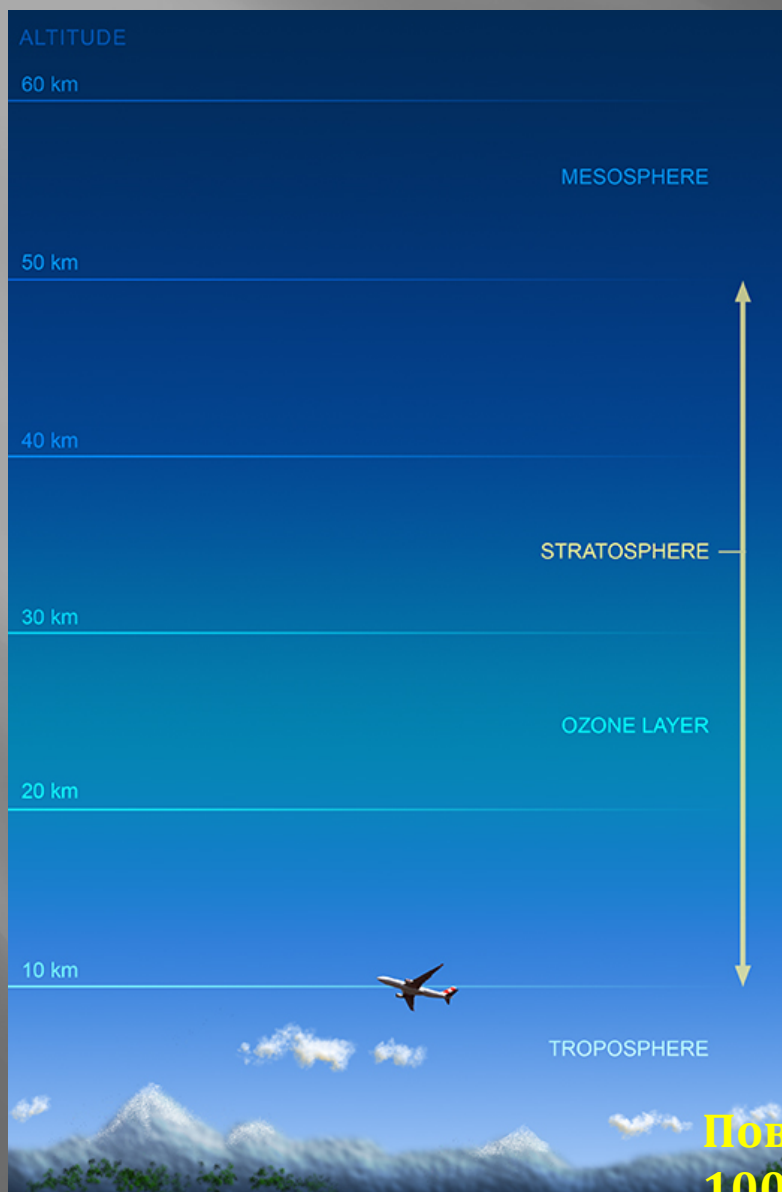
Vancouver

Neutron star

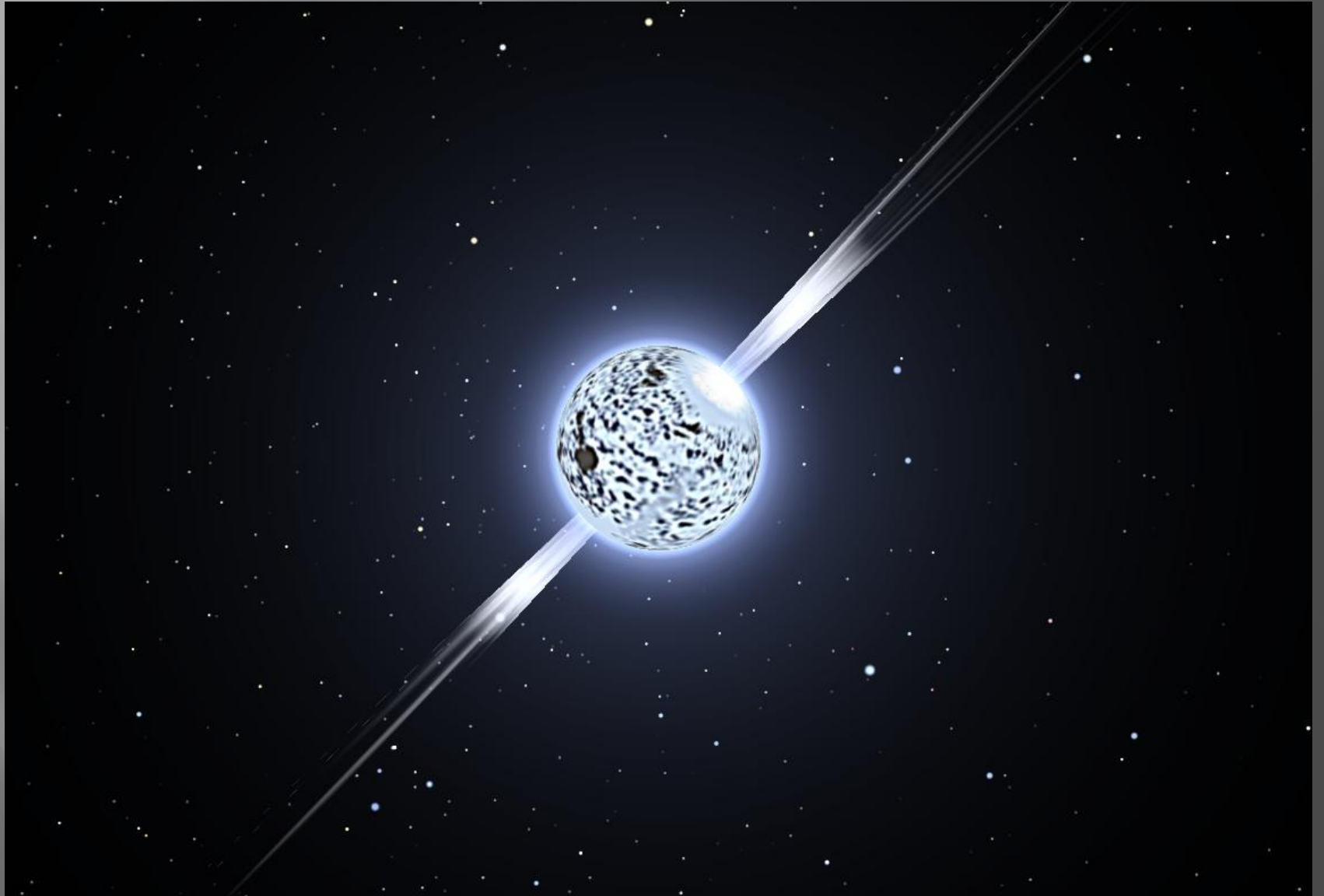
Mass ~ 1.5 solar mass
 ~ 20 km diameter

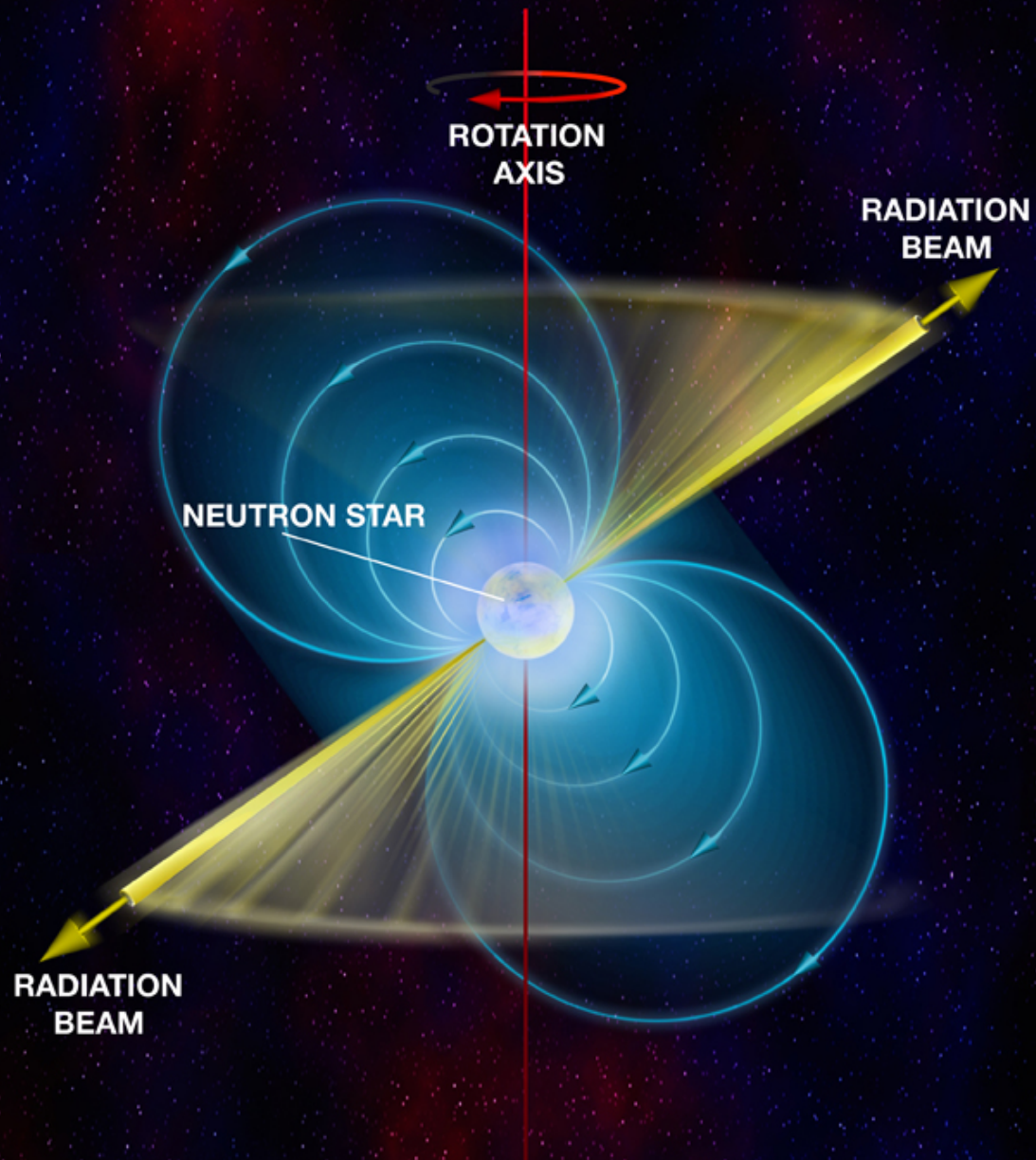
Solid crust
 ~ 2 km deep

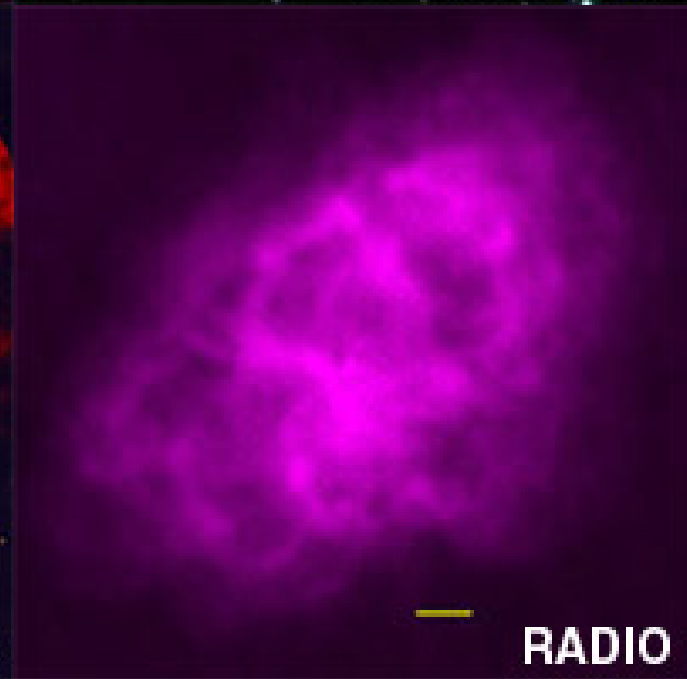
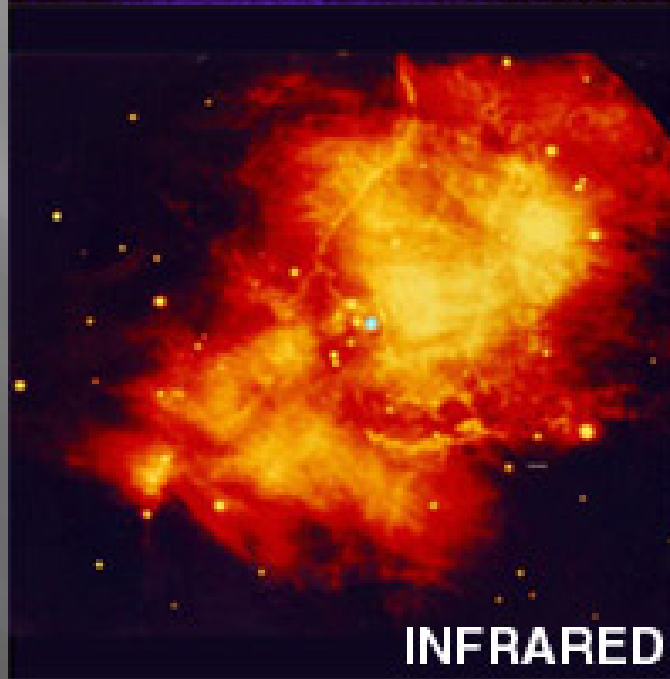
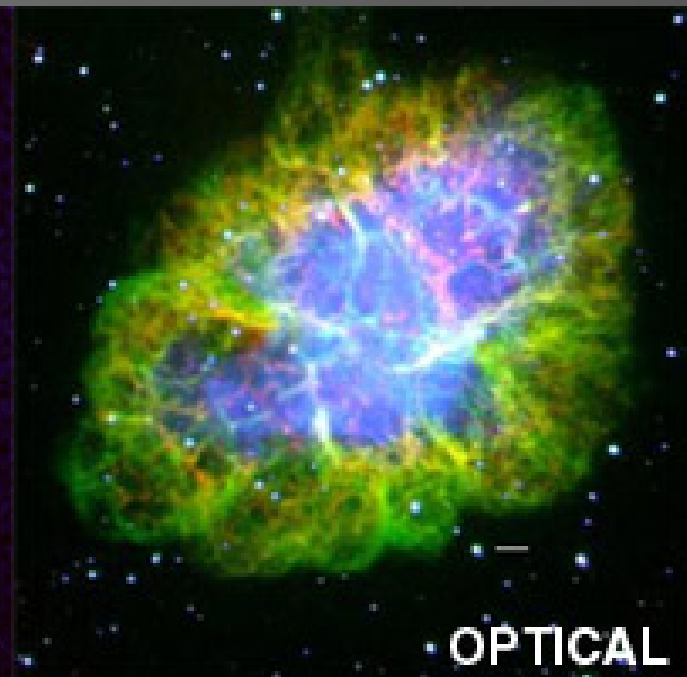
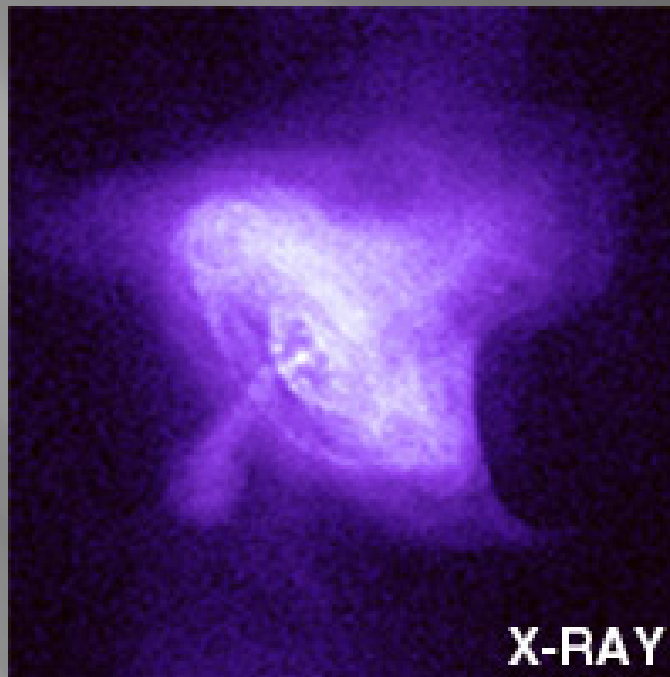
Fluid core
Mainly neutrons
with other particles

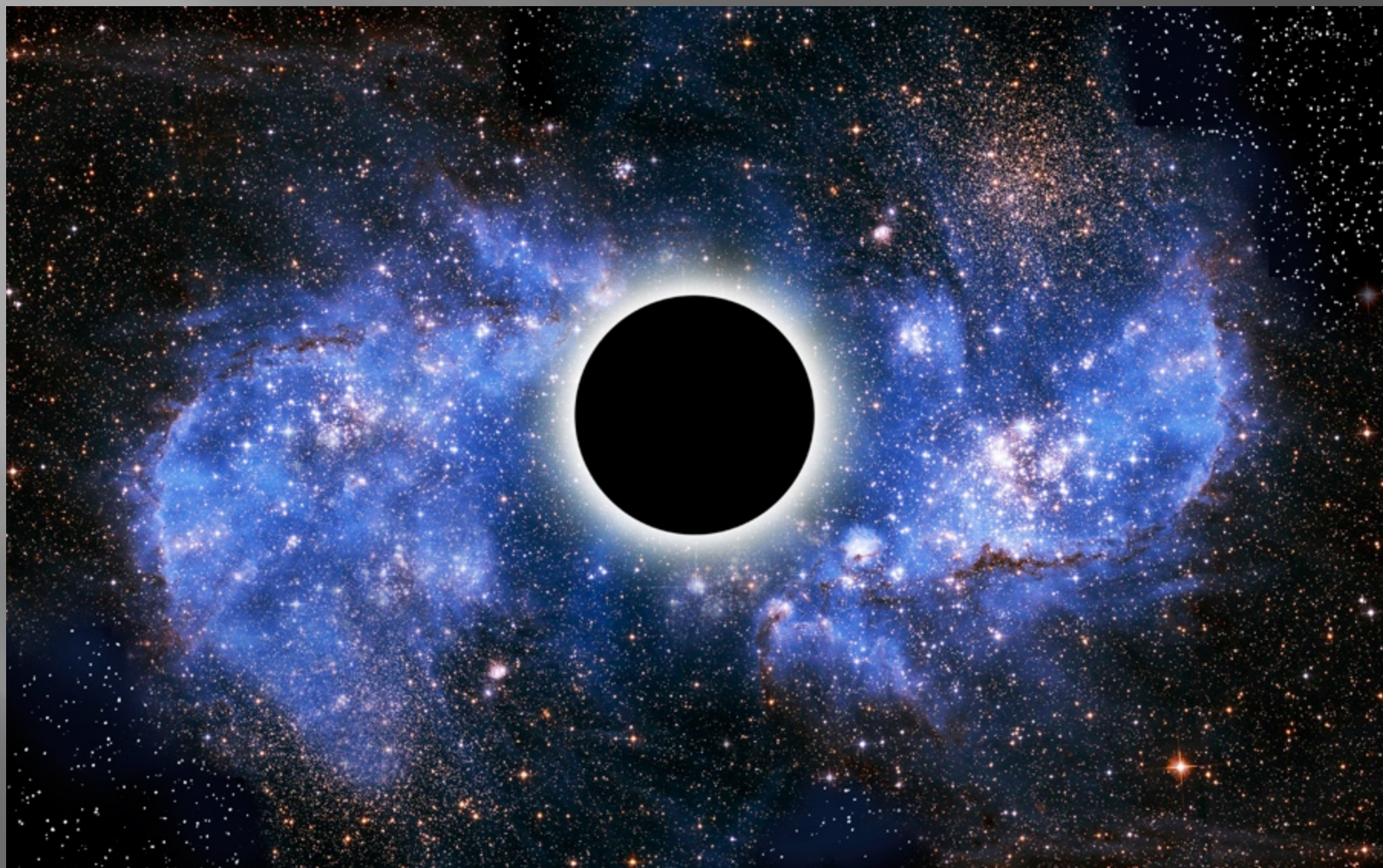


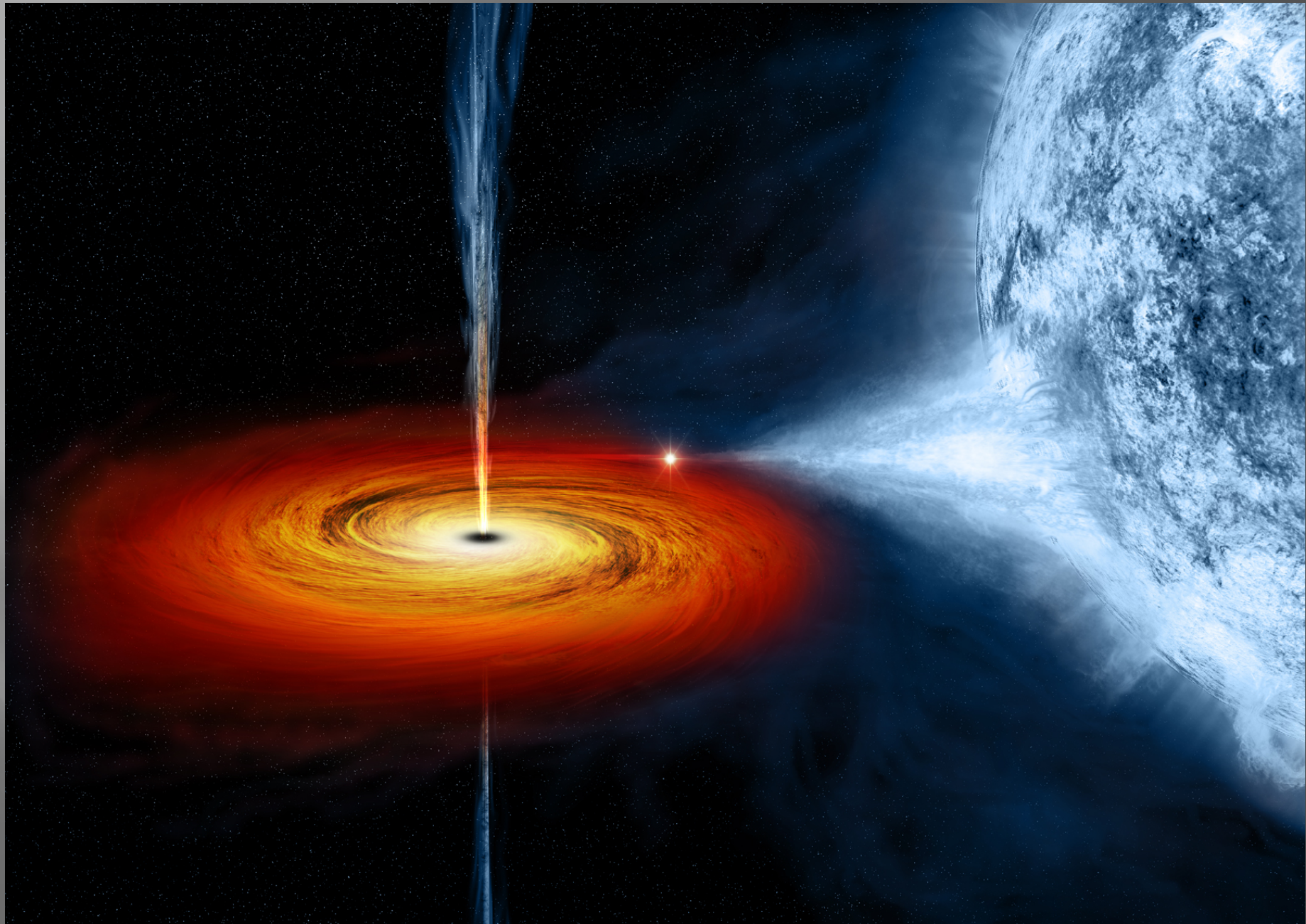
**Површинска температура од 2 милиони степени
100 милијарди пати поголемо g**

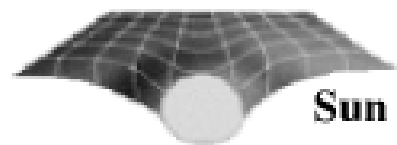








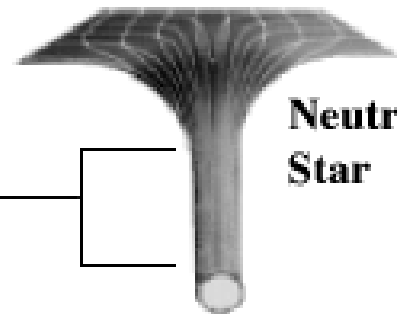




Sun

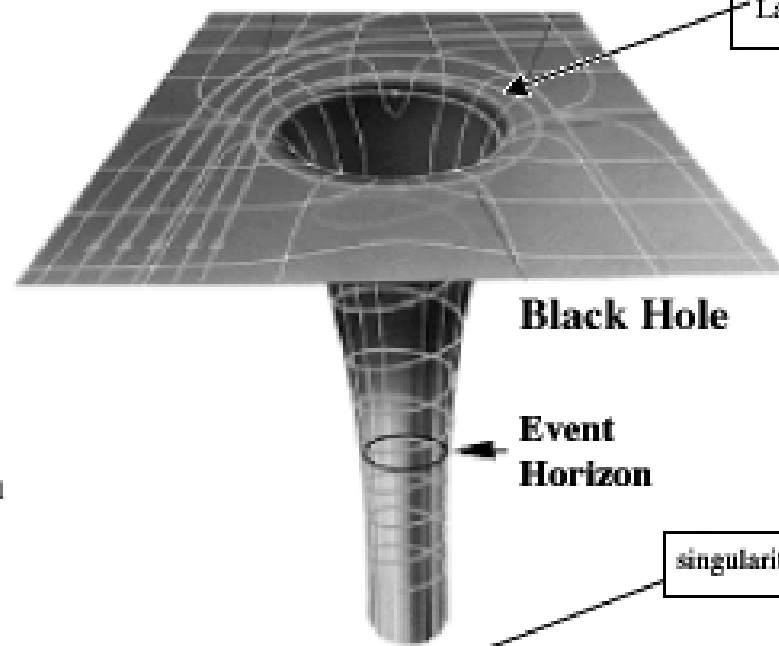


White Dwarf



Neutron Star

Distorted
space time



Last stable orbit

Black Hole

**Event
Horizon**

singularity