



*Celebrating the Wonder
of the Night Sky*



*The heavens proclaim the glory of God.
The skies display his craftsmanship.*

Psalm 19:1 NLT

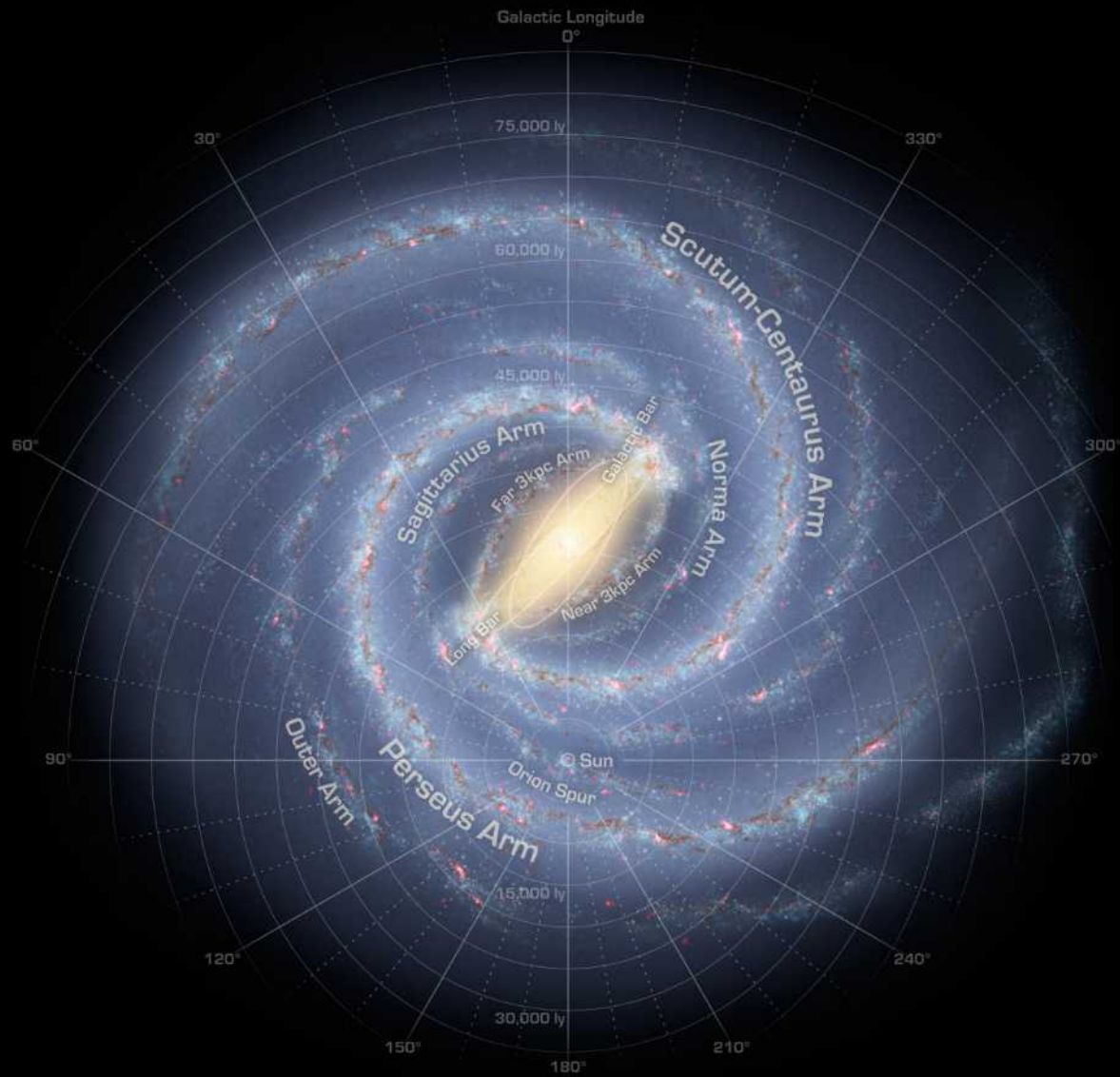
Celebrating the Wonder of the Night Sky

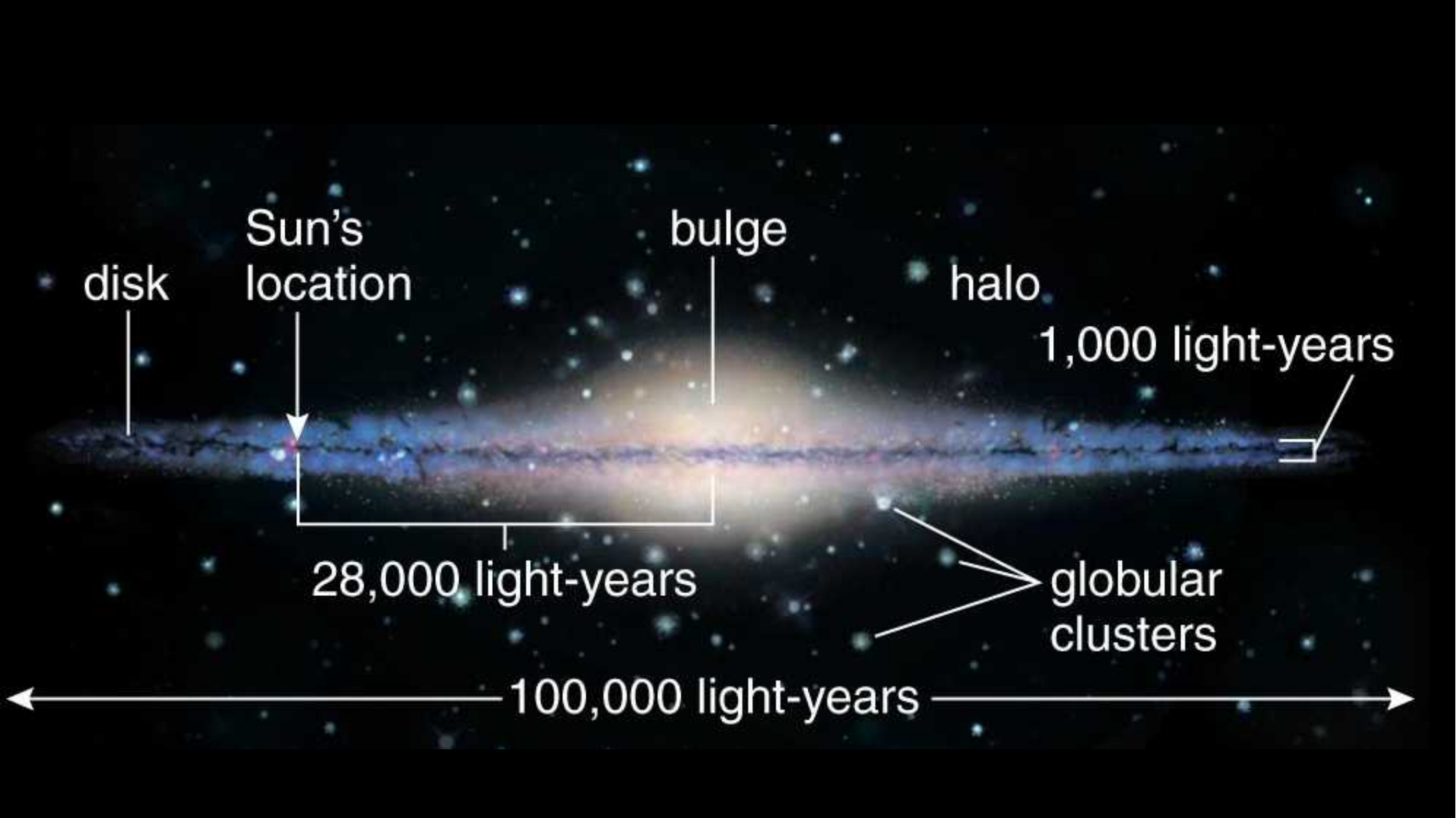
Light Year Calculation: Simple!

[Speed]	300 000 km/s
[Time]	x 60 s x 60 m x 24 h x 365.25 d
<hr/>	
[Distance]	≈ 10 000 000 000 000 km
	≈ 63 000 AU

Celebrating the Wonder of the Night Sky

Milkyway Galaxy





disk

Sun's
location

bulge

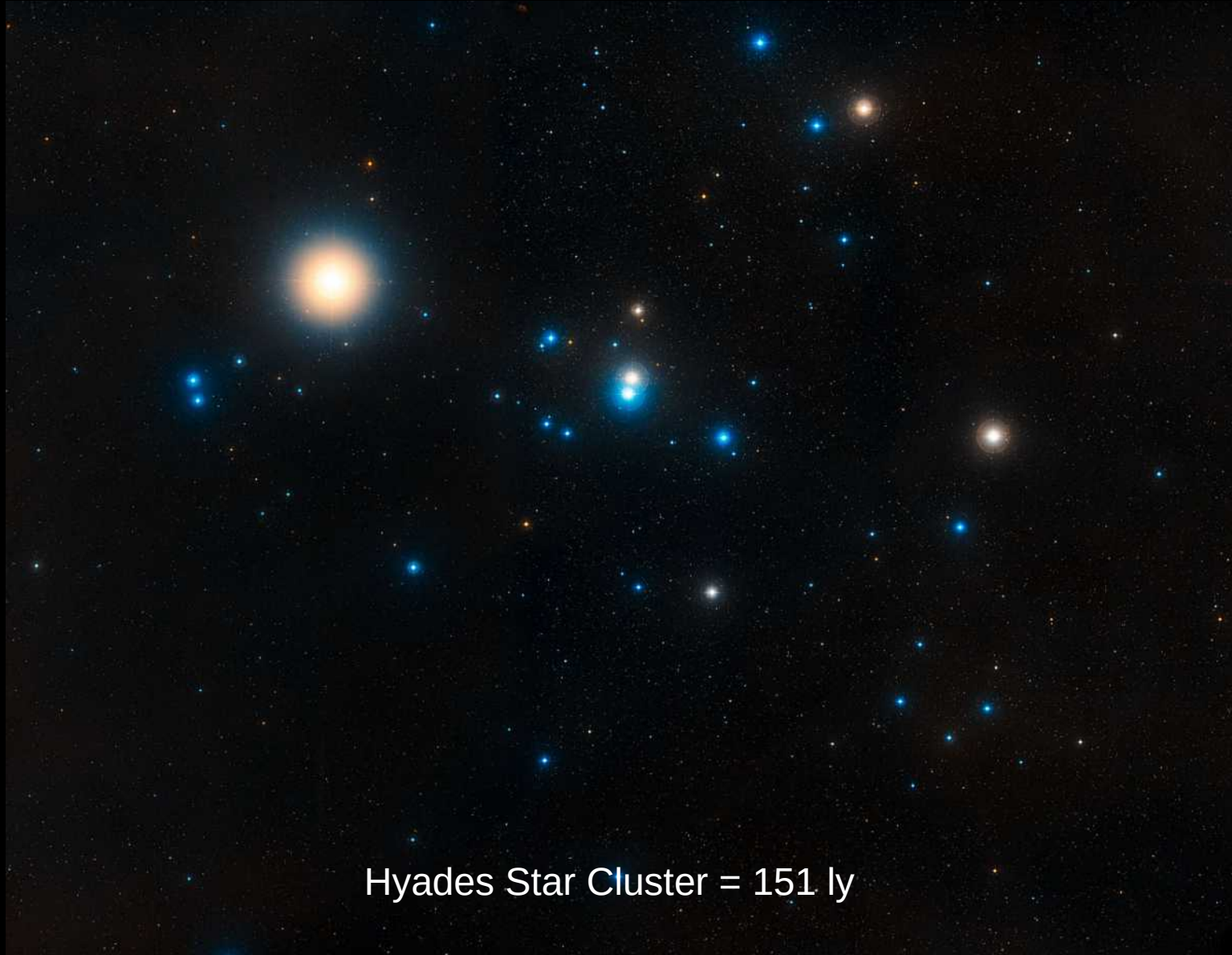
halo

1,000 light-years

28,000 light-years

globular
clusters

100,000 light-years



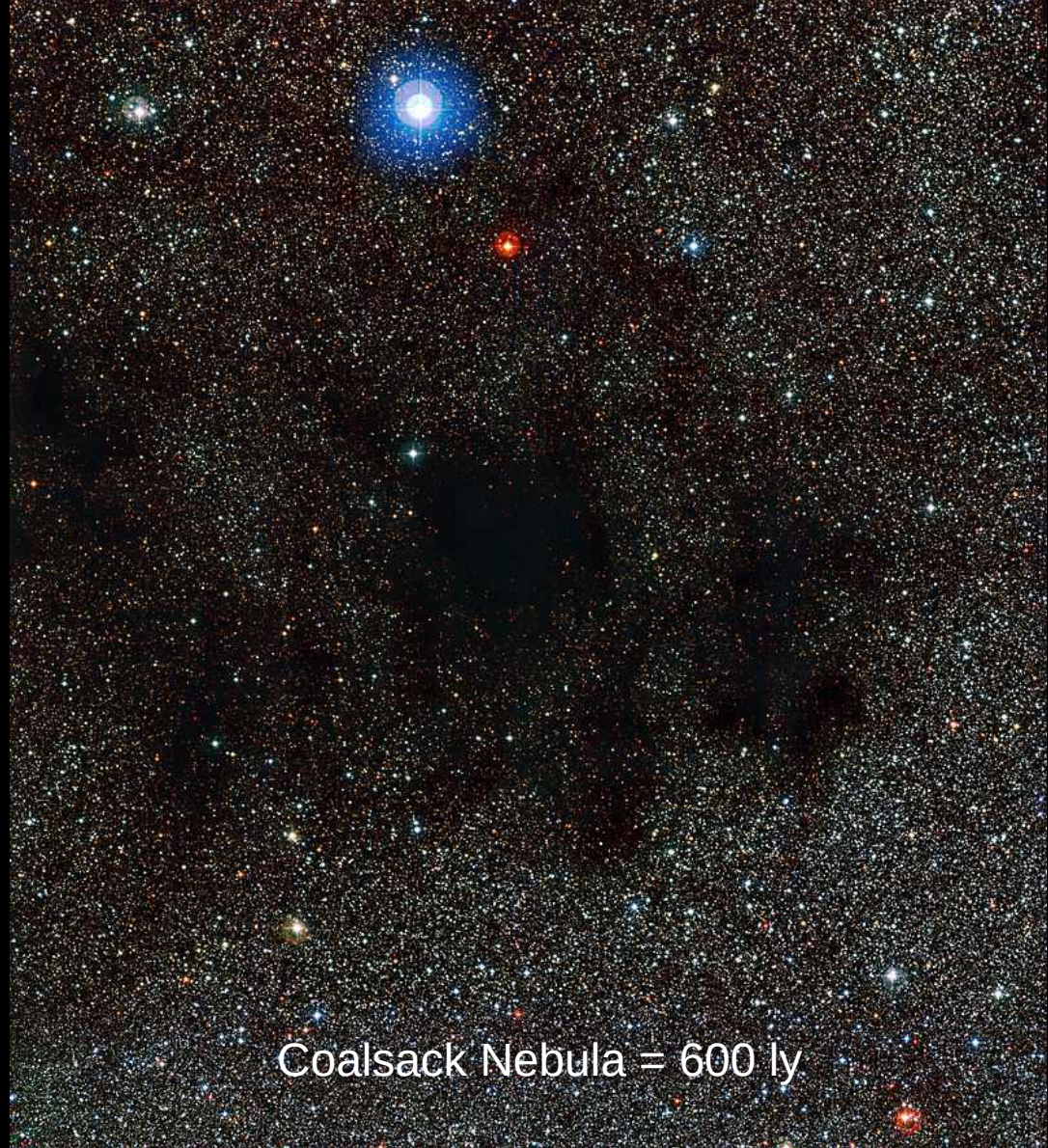
Hyades Star Cluster = 151 ly



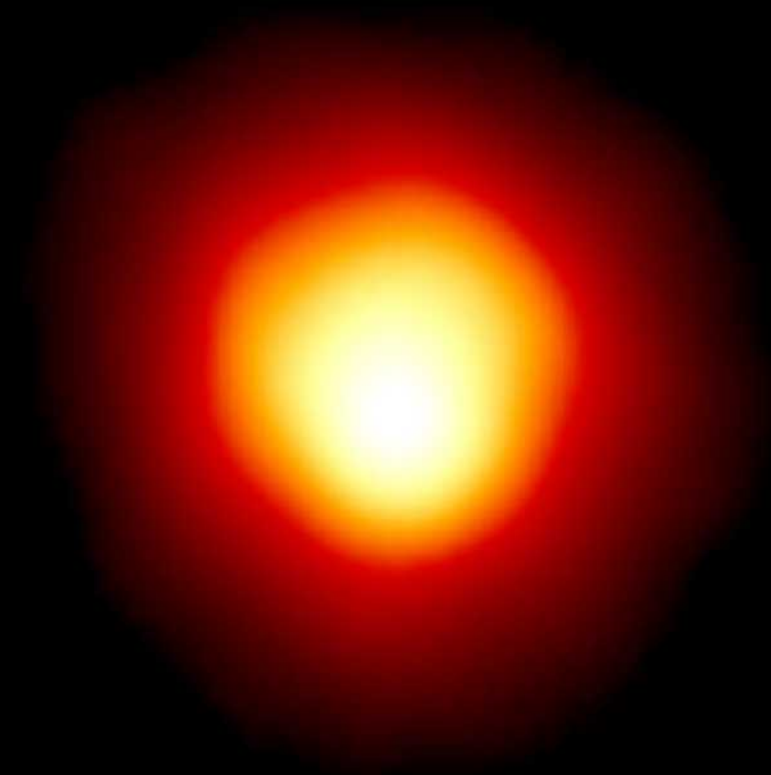
Barnard 68 Nebula = 400 ly



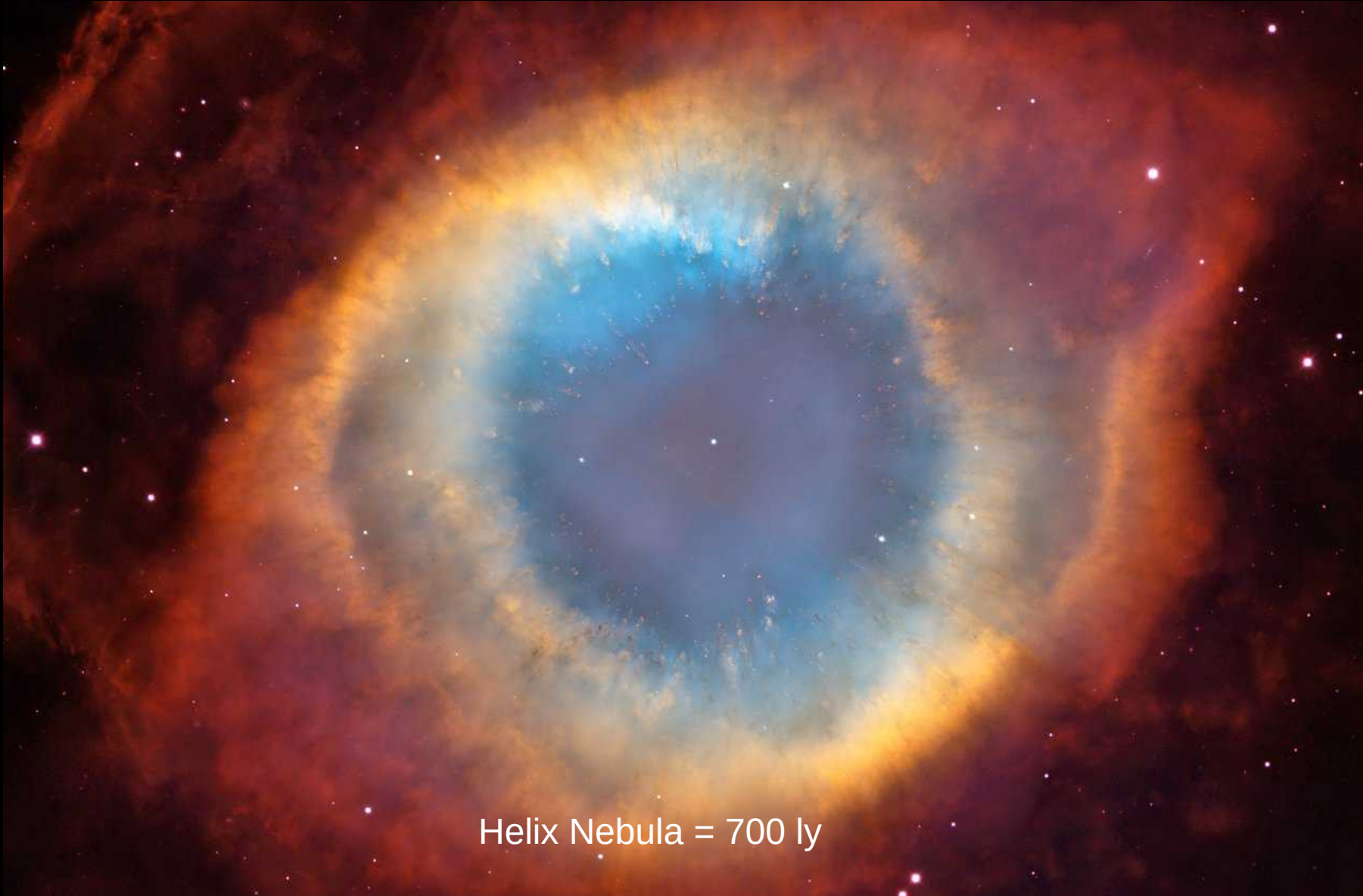
Pleiades Star Cluster = 444 ly



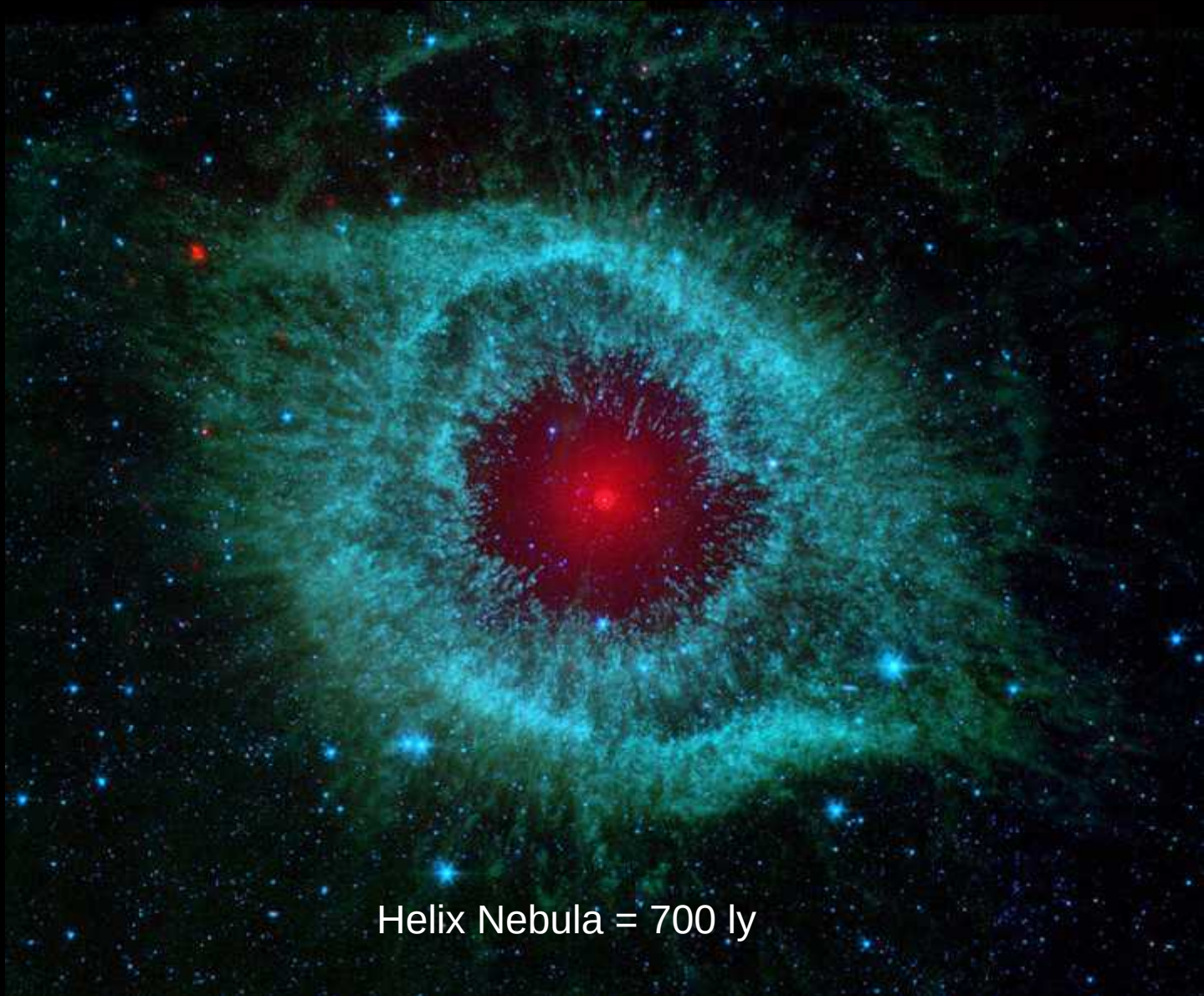
Coalsack Nebula = 600 ly



Betelgeuse Star = 643 ly



Helix Nebula = 700 ly



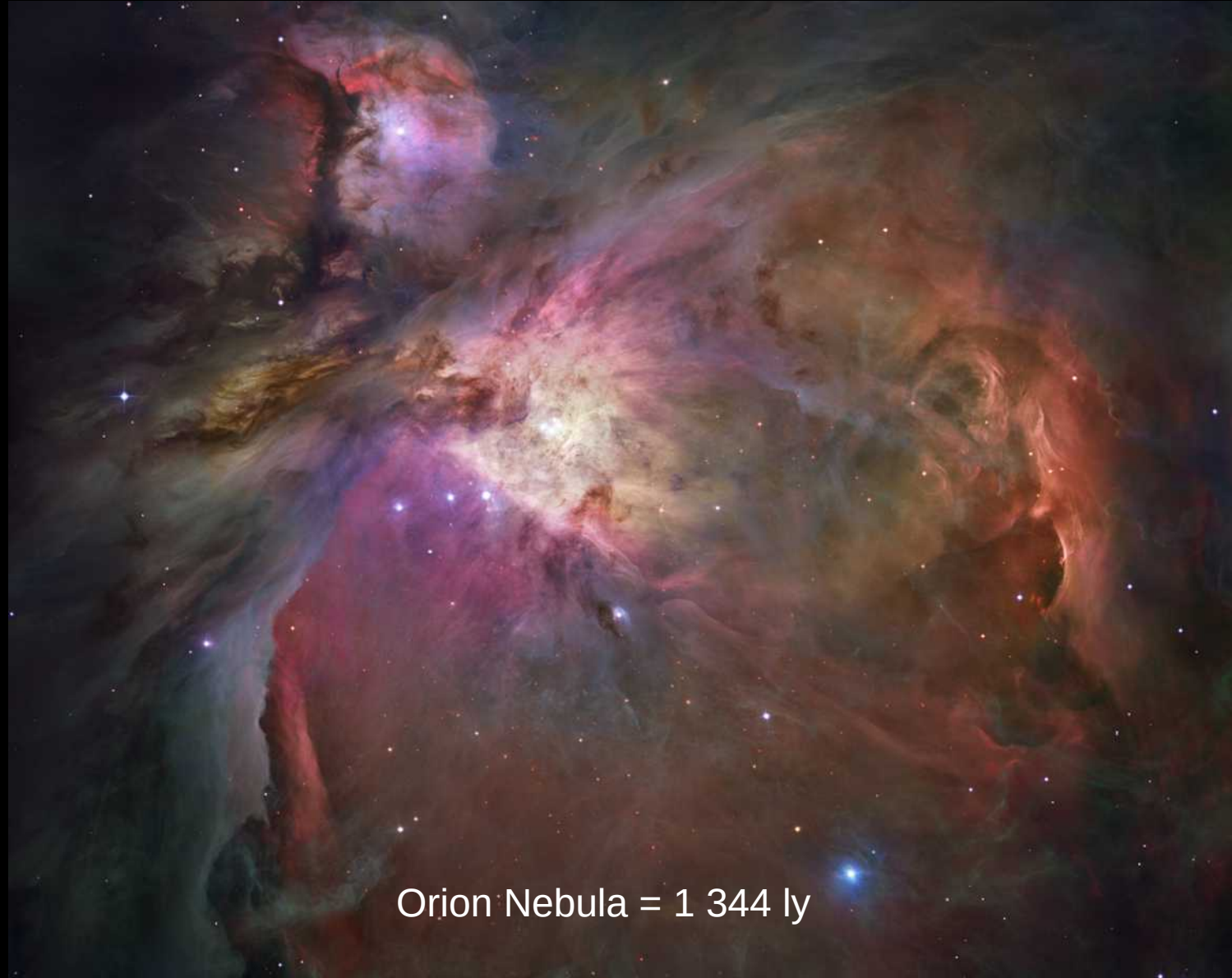
Helix Nebula = 700 ly



Witch Head Nebula = 900 ly



Spirograph Nebula = 1 100 ly



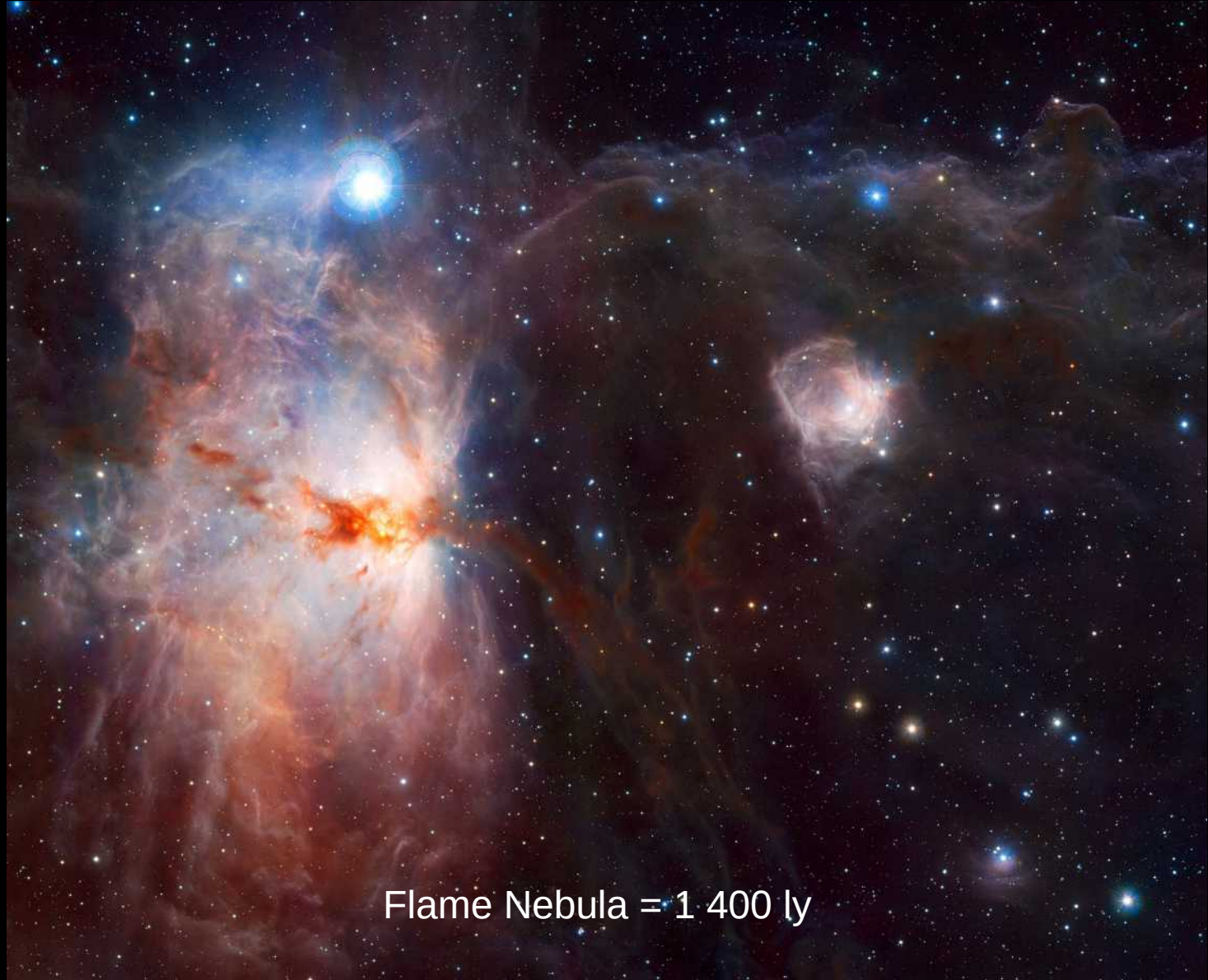
Orion Nebula = 1 344 ly



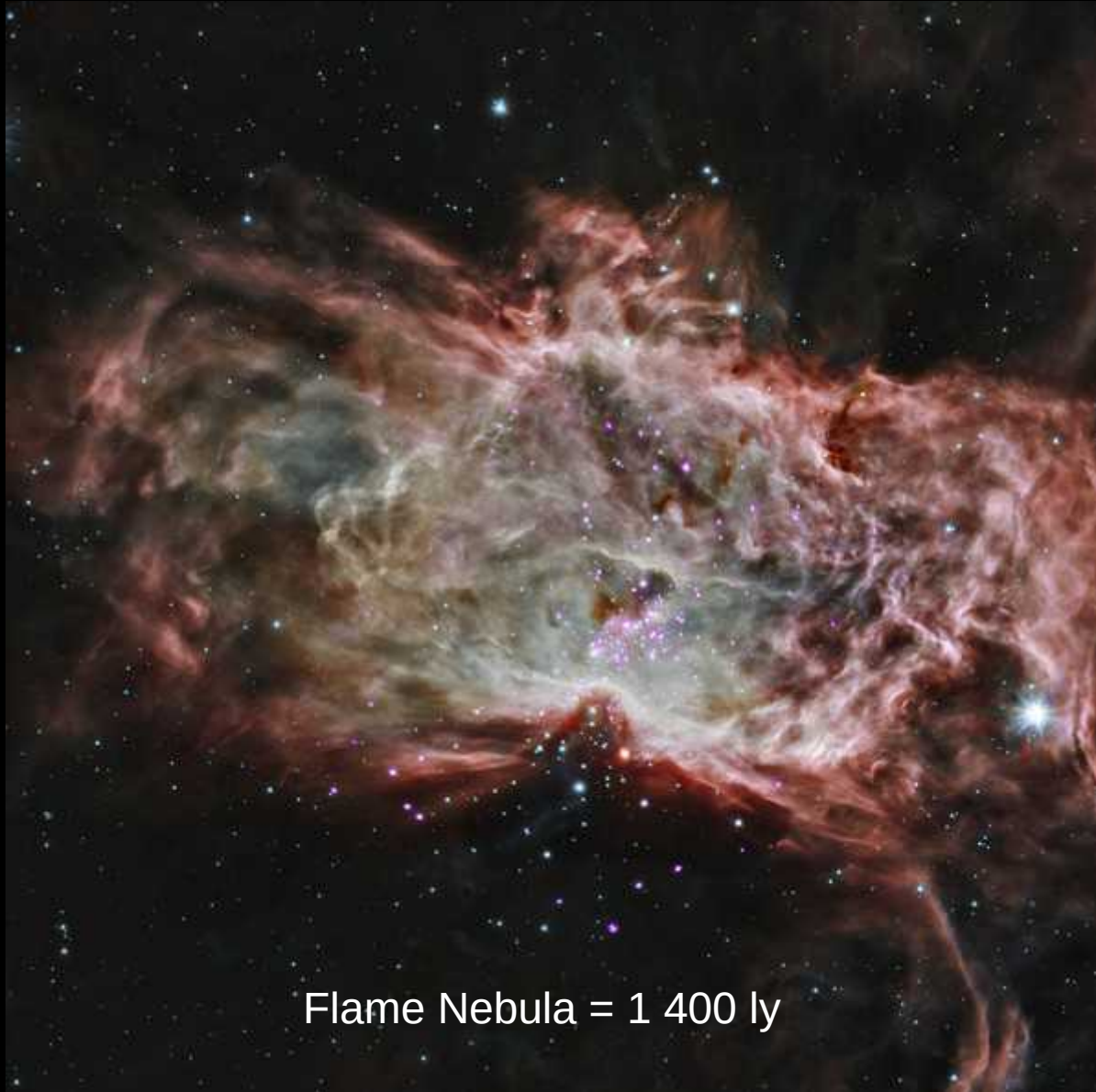
Dumbbell Nebula = 1 360 ly



Dumbbell Nebula = 1 360 ly



Flame Nebula = 1 400 ly



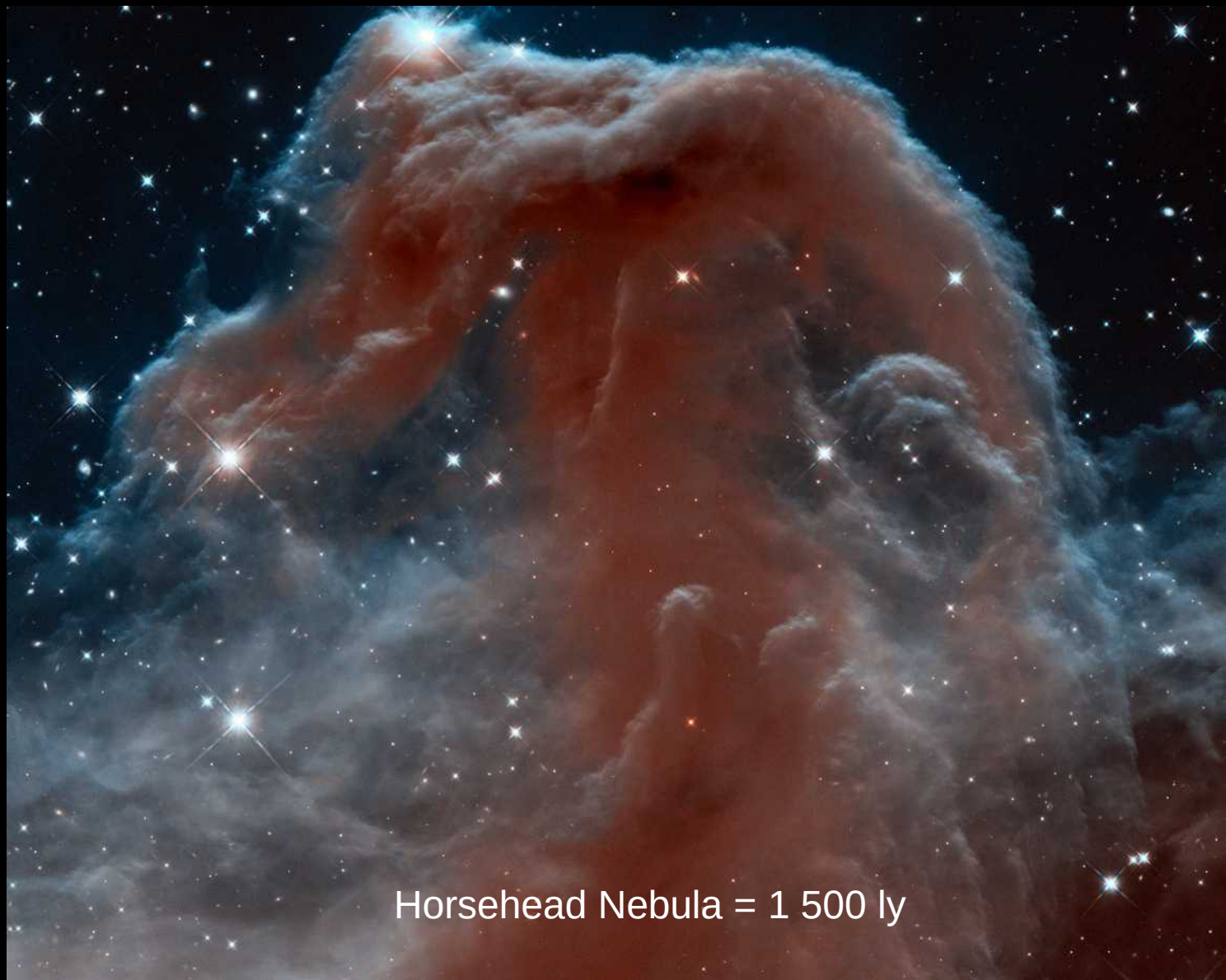
Flame Nebula = 1 400 ly



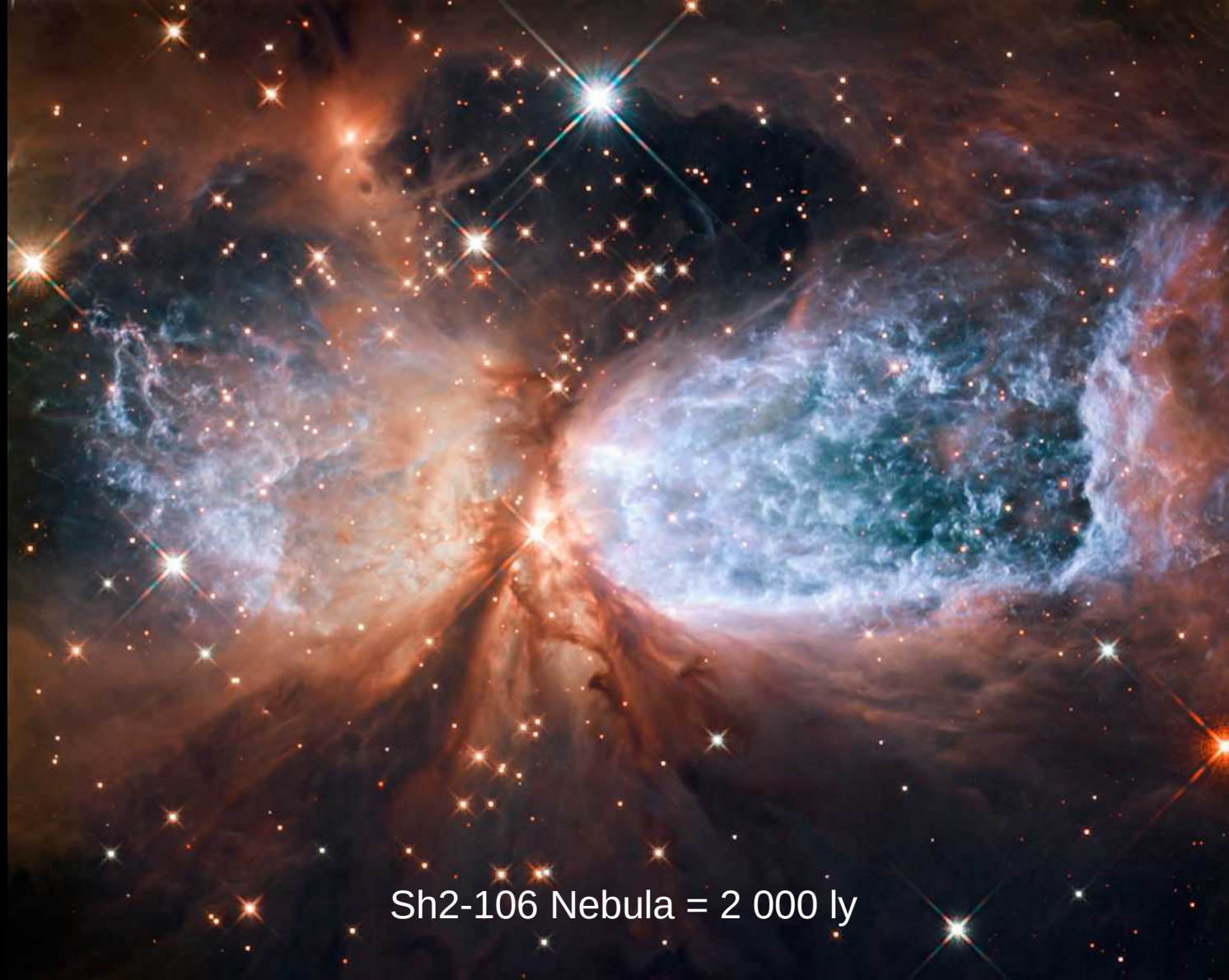
Veil Nebula = 1 470 ly



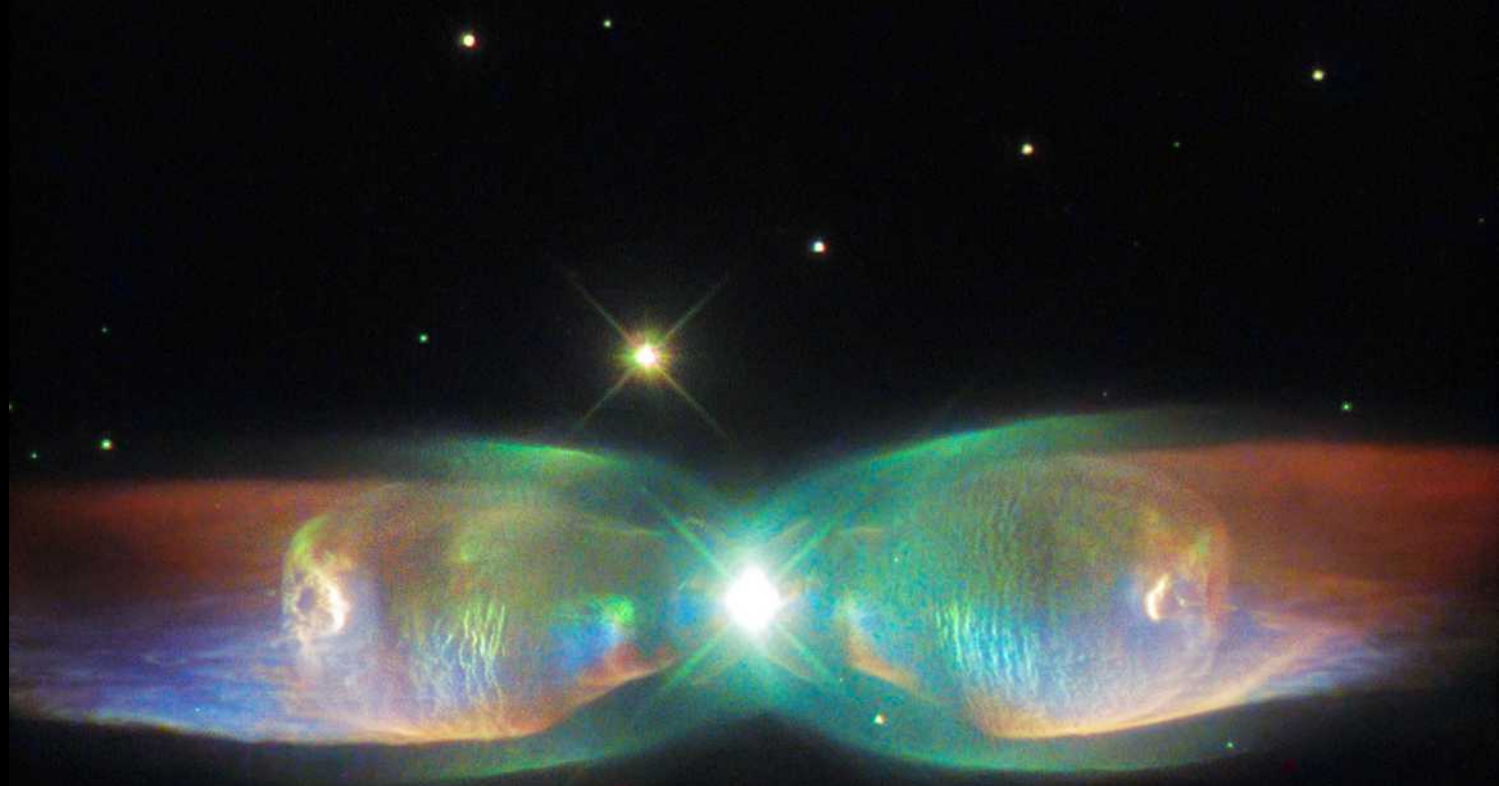
Horsehead Nebula = 1 500 ly



Horsehead Nebula = 1 500 ly



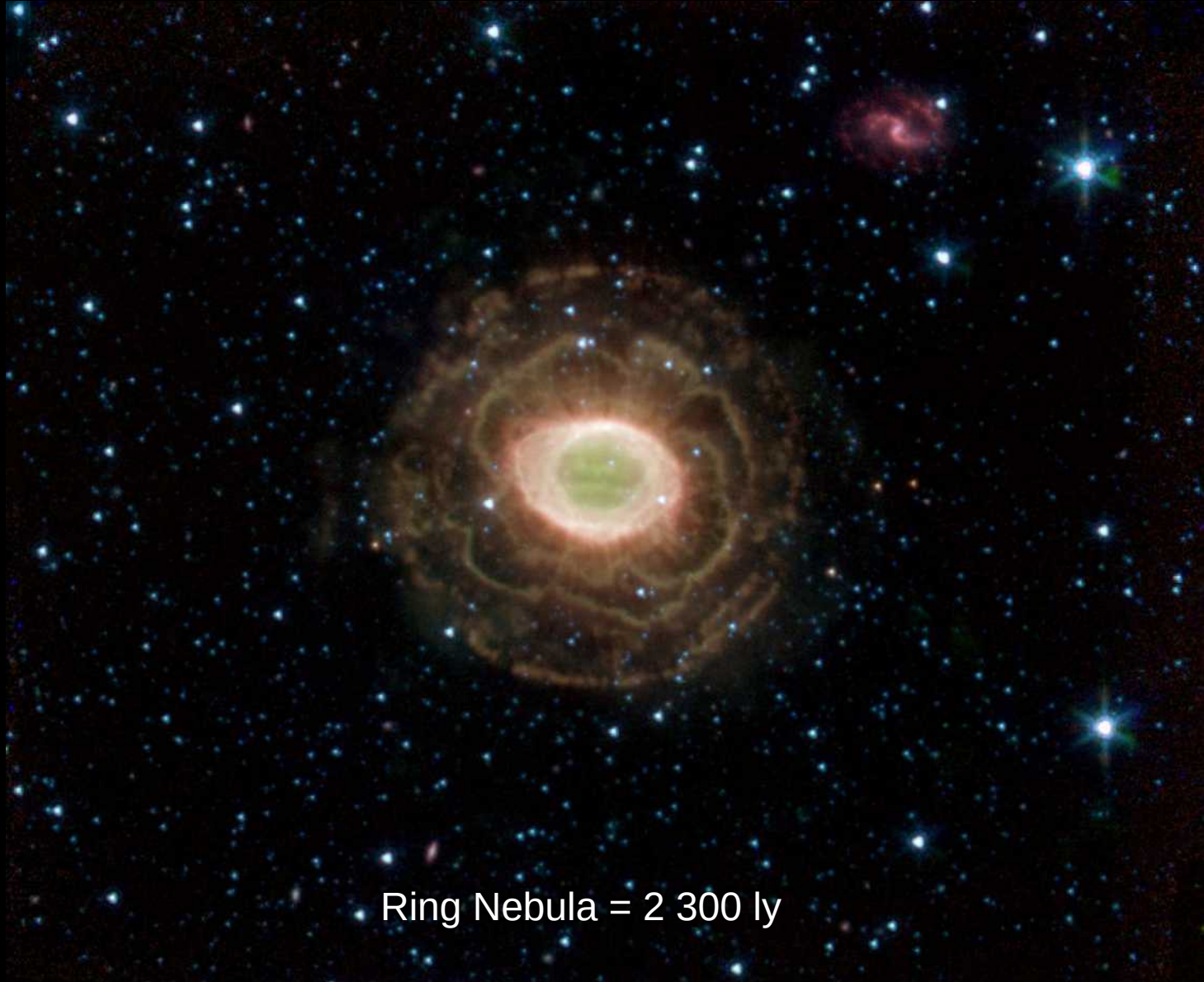
Sh2-106 Nebula = 2 000 ly



Twin Jet Nebula = 2 100 ly



Ring Nebula = 2 300 ly



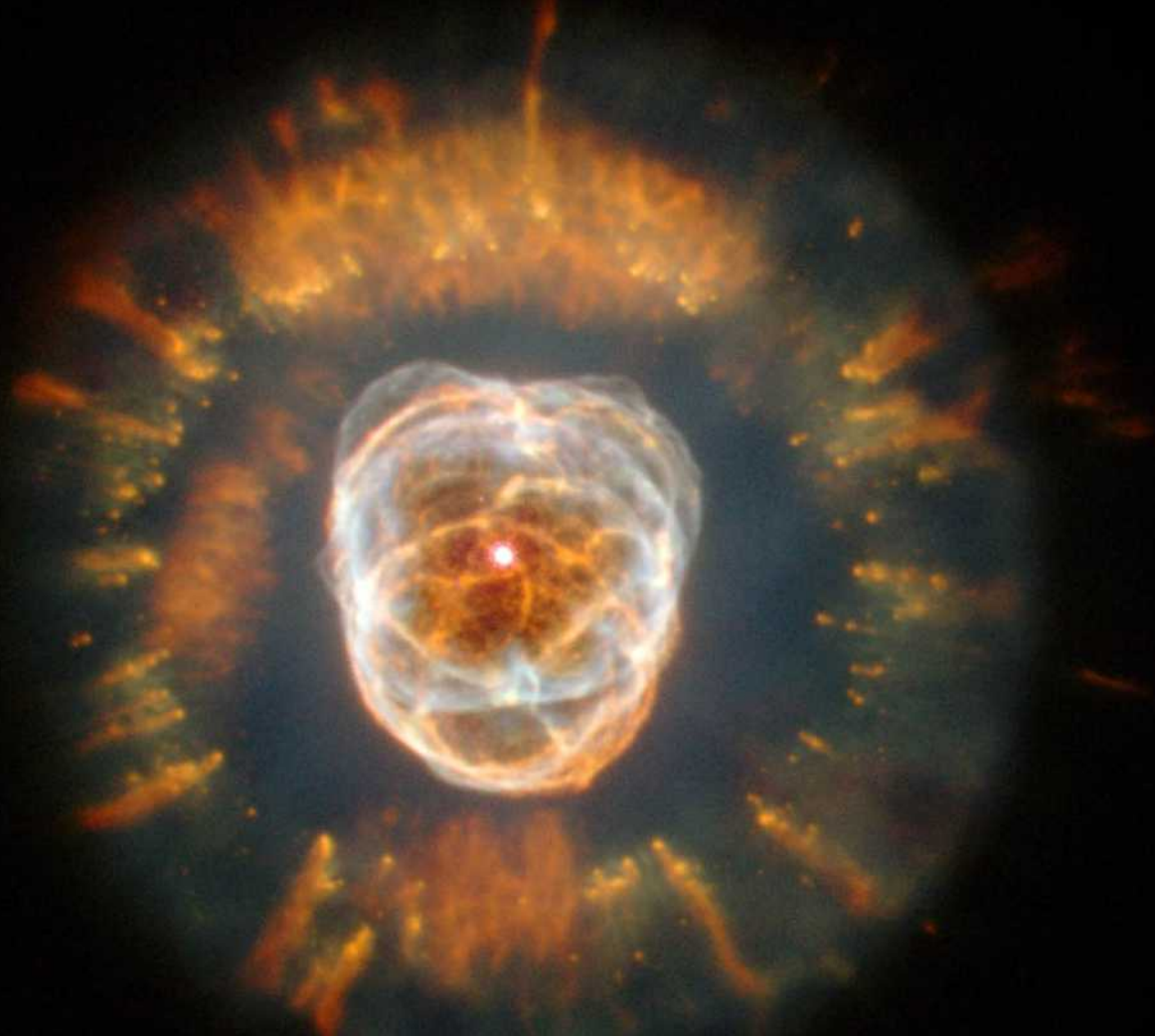
Ring Nebula = 2 300 ly



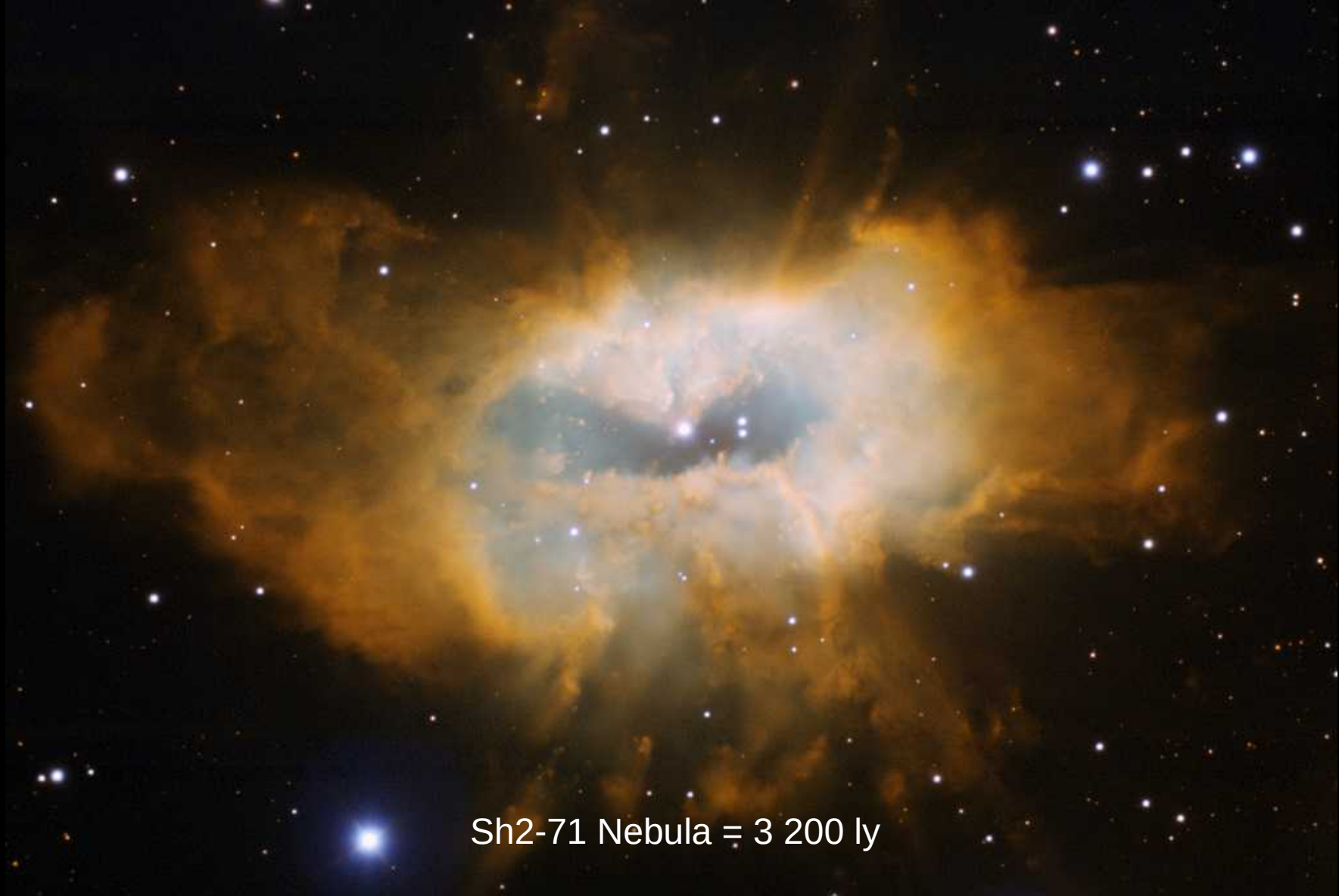
NGC 2264 Nebula = 2 700 ly



Cone Nebula = 2 700 ly



Eskimo Nebula = 2 870 ly



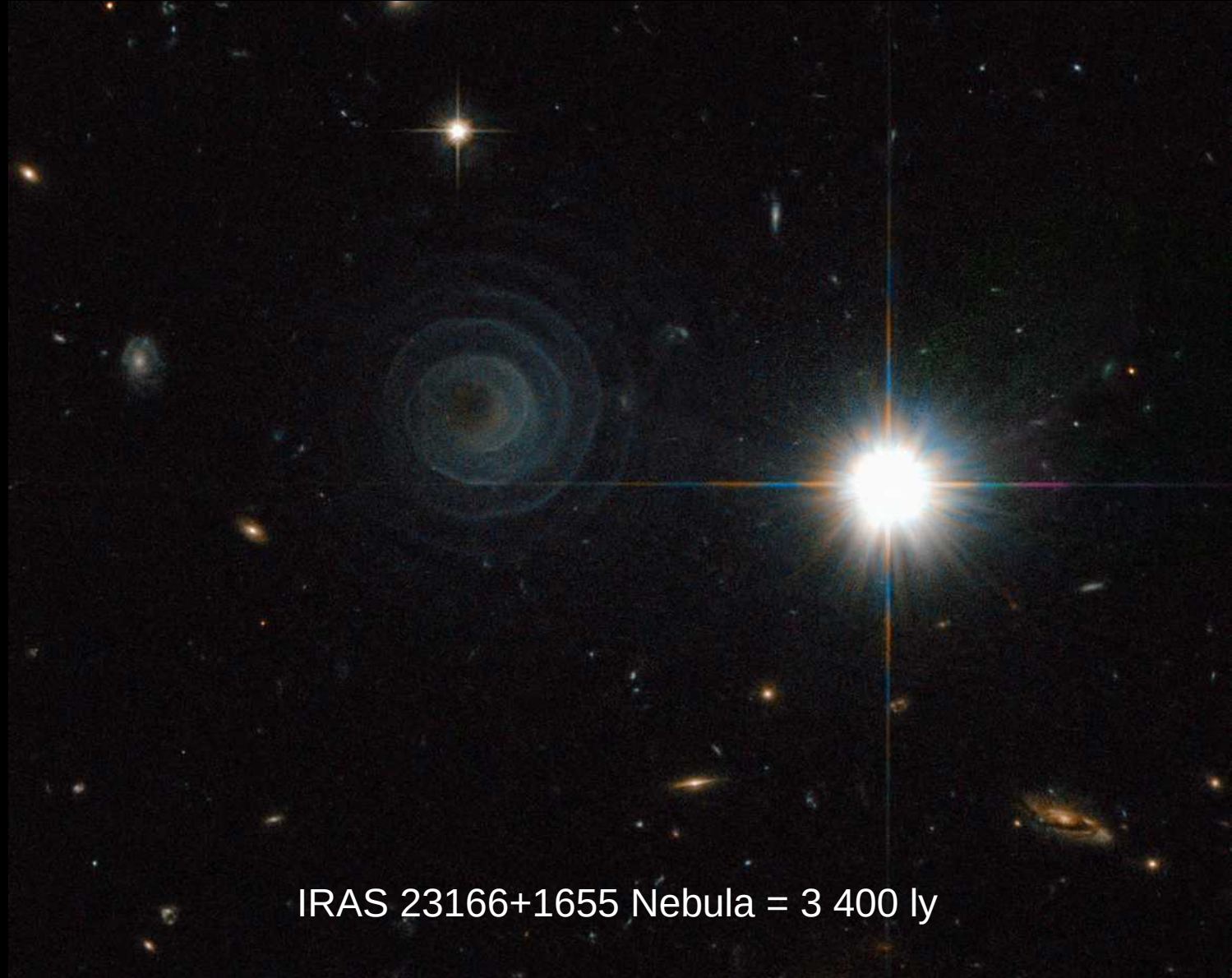
Sh2-71 Nebula = 3 200 ly



Cat's Eye Nebula = 3 300 ly



Cat's Eye Nebula = 3 300 ly



IRAS 23166+1655 Nebula = 3 400 ly



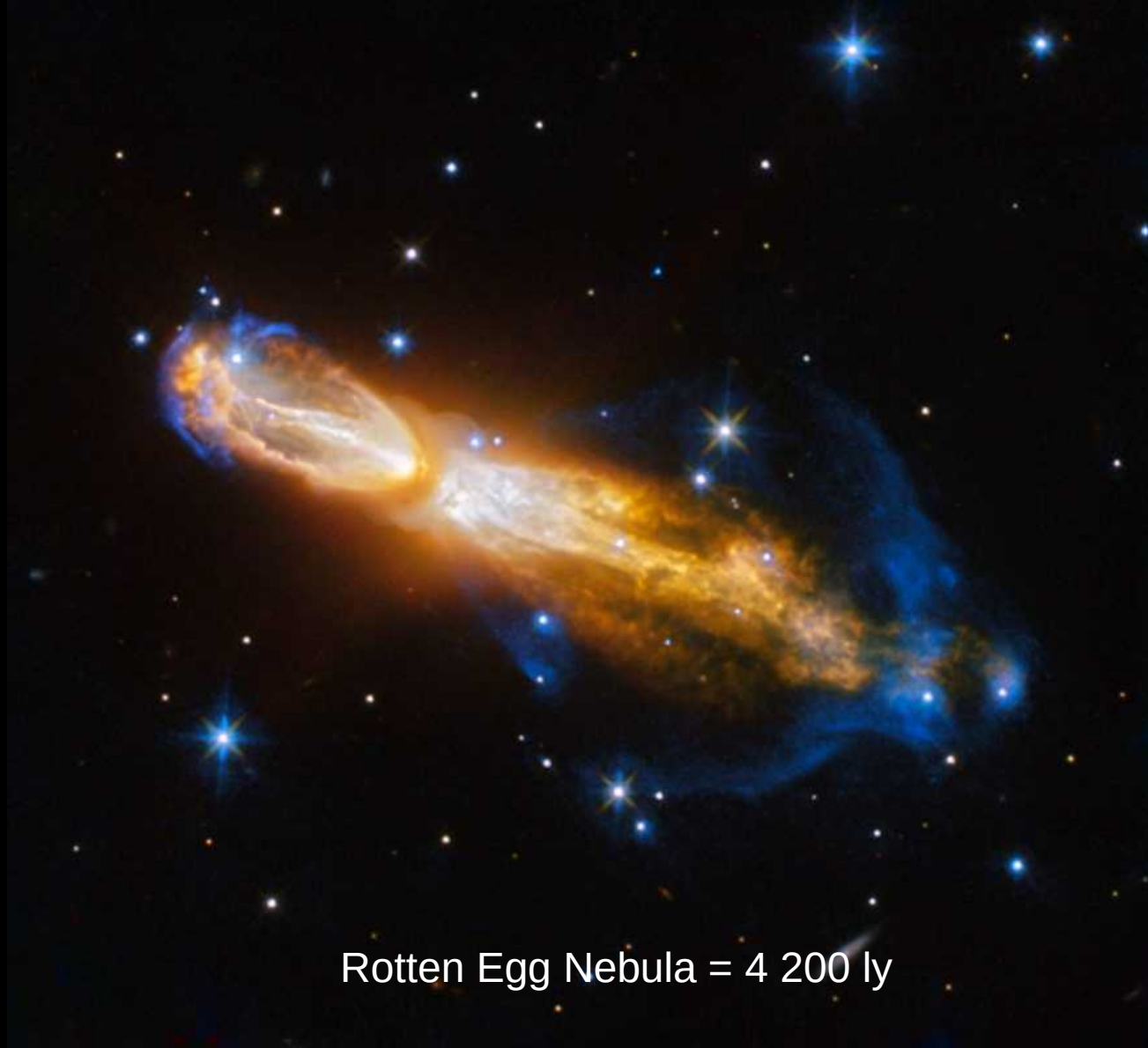
IRAS 23166+1655 Nebula = 3 400 ly



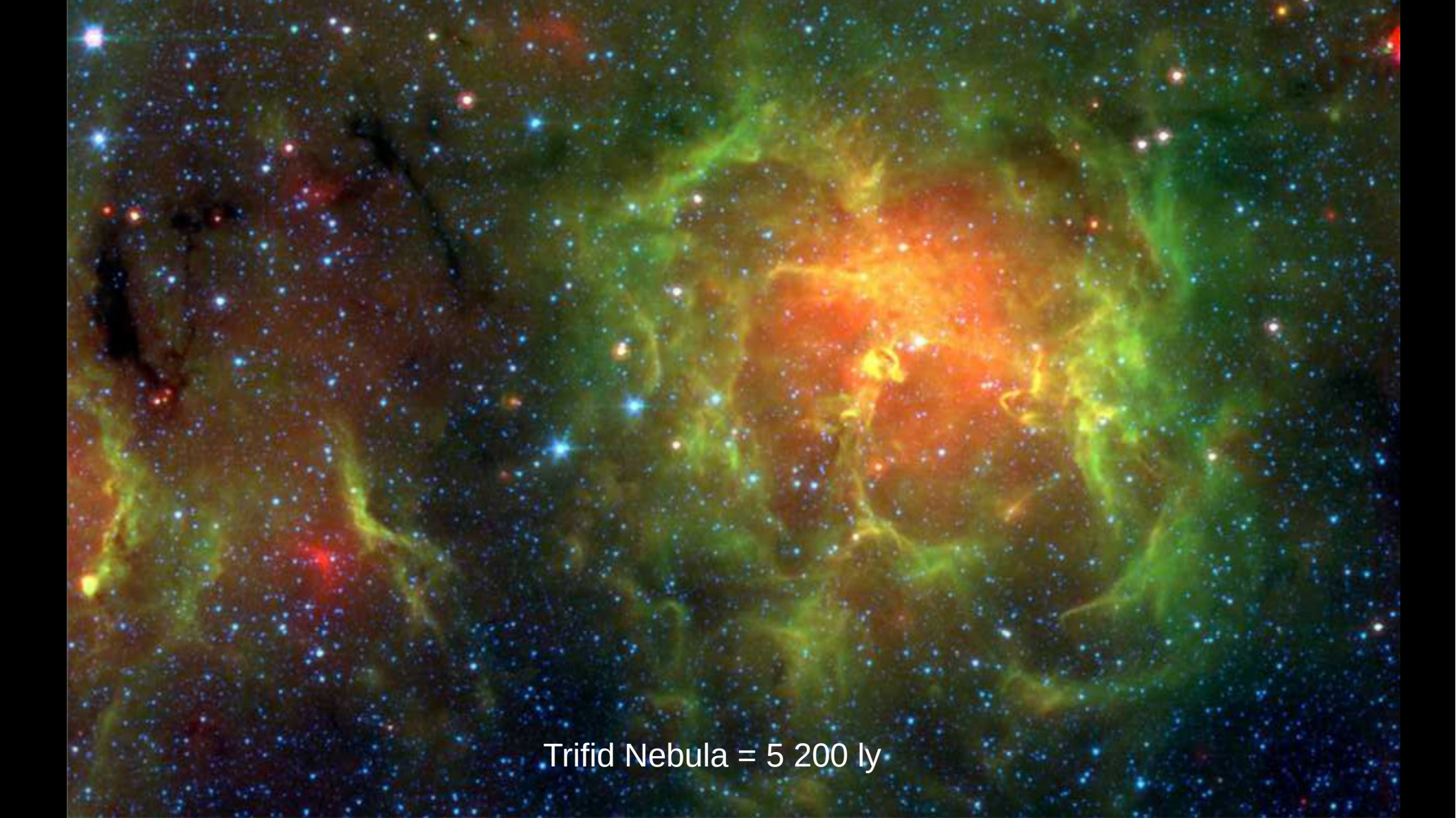
Butterfly Nebula = 3 800 ly



Lagoon Nebula = 4 100 ly



Rotten Egg Nebula = 4 200 ly



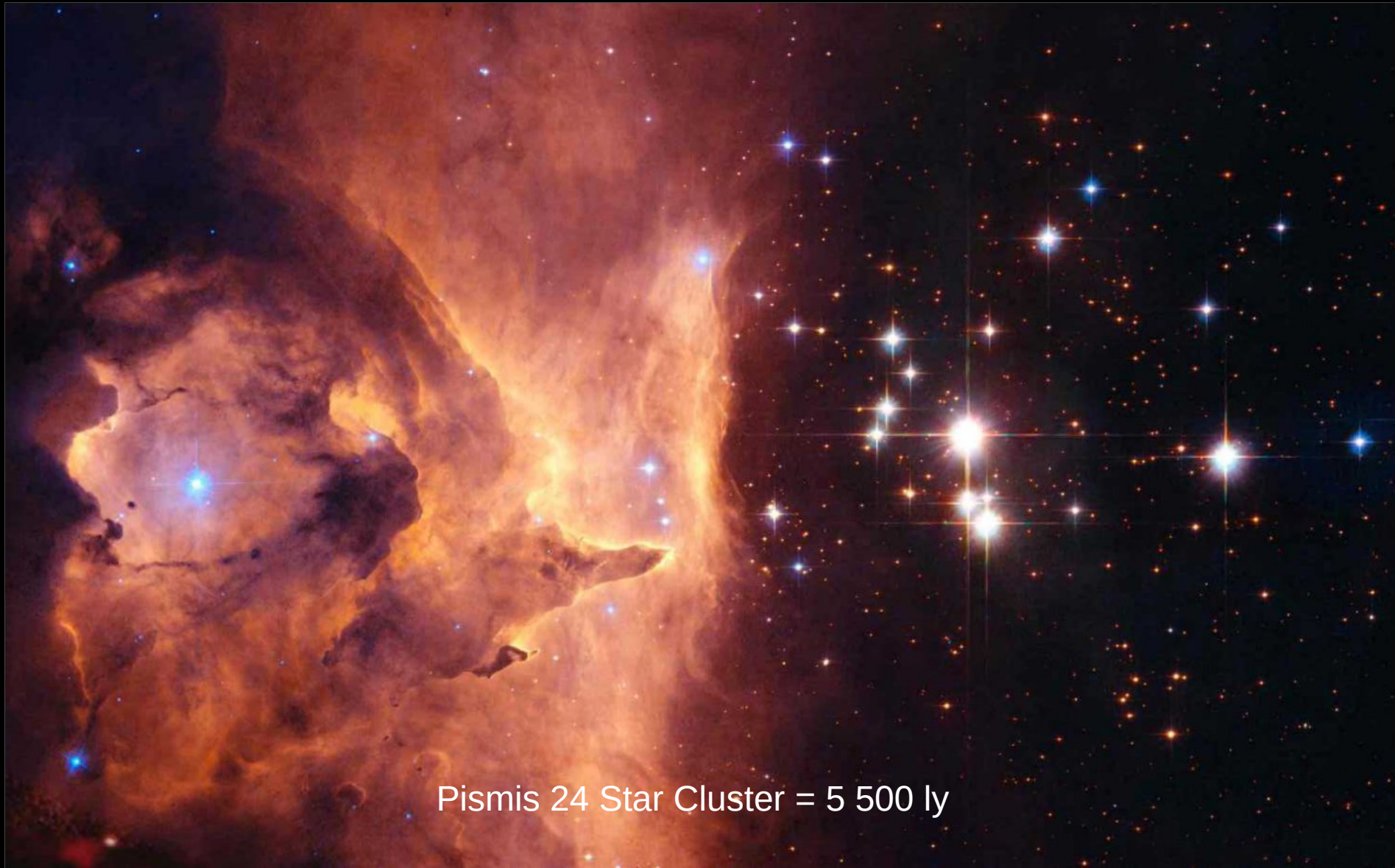
Trifid Nebula = 5 200 ly



Monkey Head Nebula = 5 200 ly



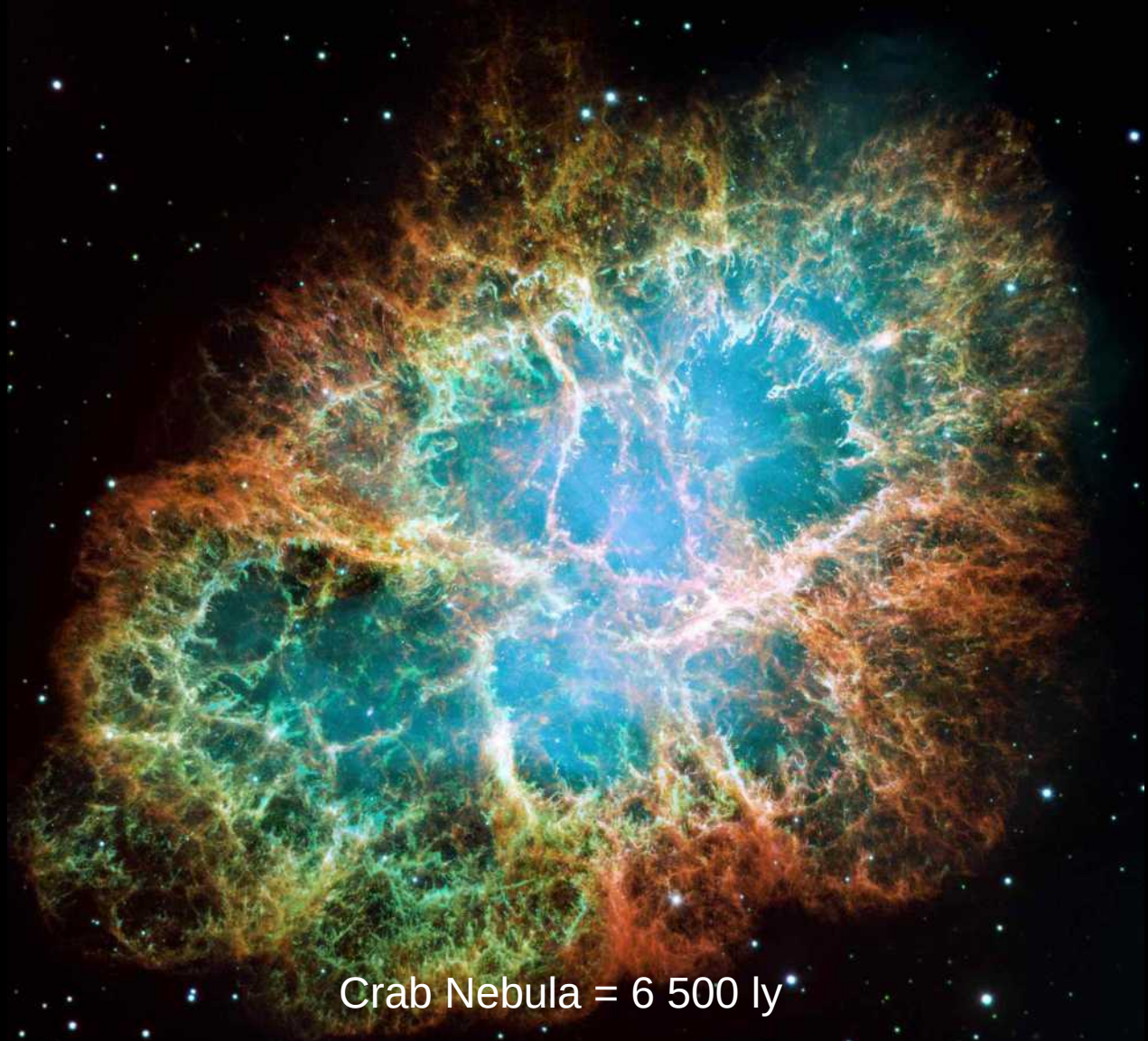
Lobster Nebula = 5 500 ly



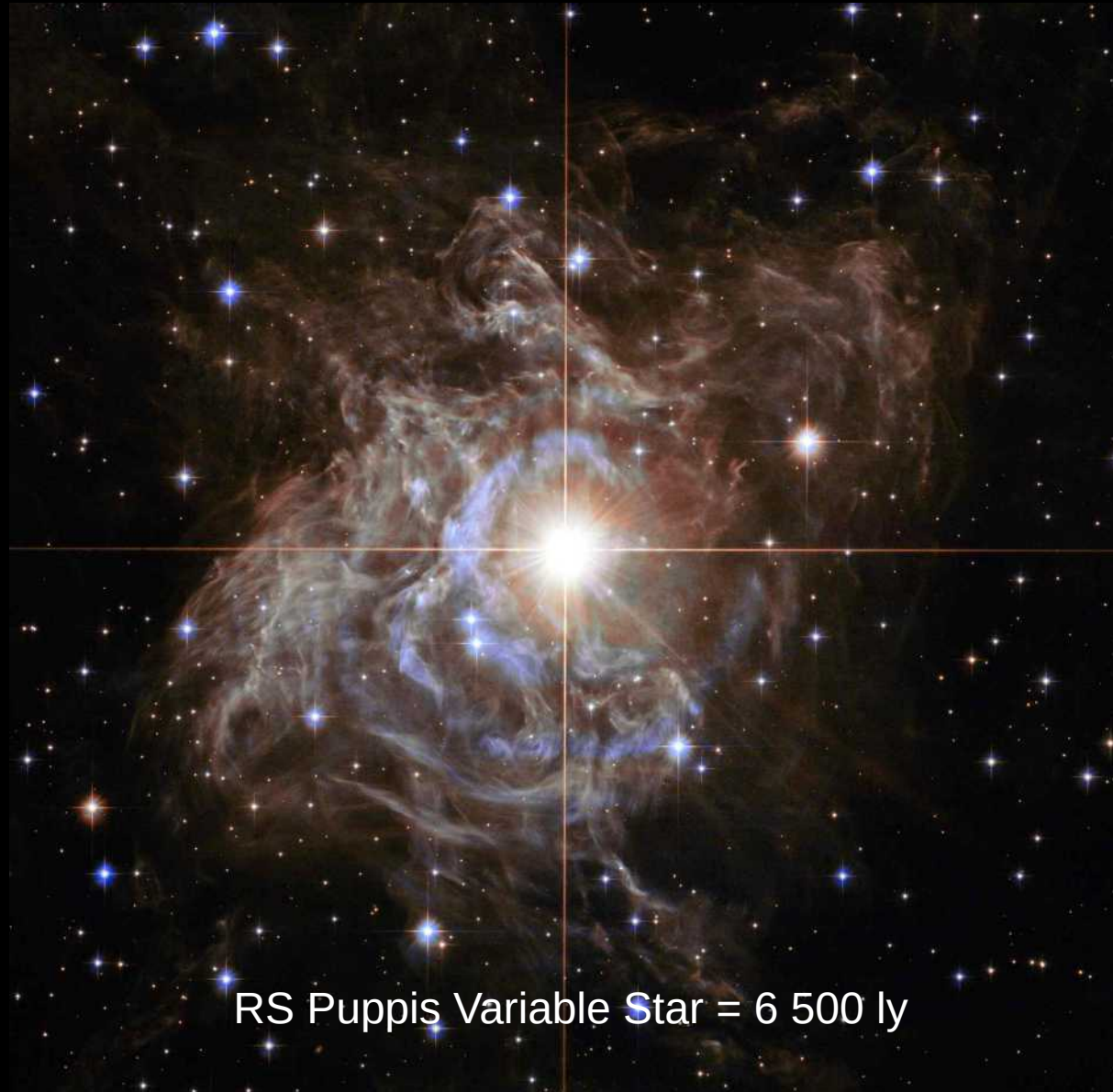
Pismis 24 Star Cluster = 5 500 ly



Omega Nebula = 6 000 ly



Crab Nebula = 6 500 ly



RS Puppis Variable Star = 6 500 ly



Eagle Nebula = 7 000 ly



Eagle Nebula 'Pillars of Creation' = 7 000 ly



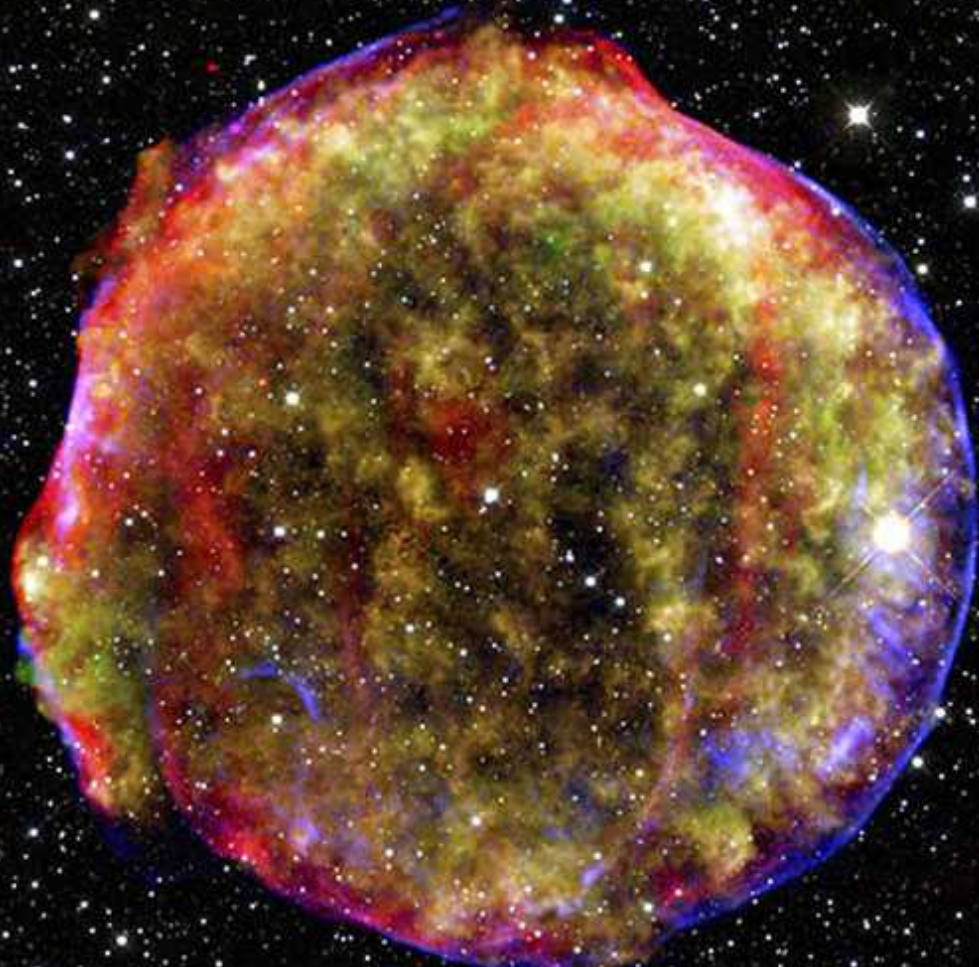
SN1006 Supernova = 7 200 ly



Red Spider Nebula = 8 000 ly



Engraved Hourglass Nebula = 8 000 ly



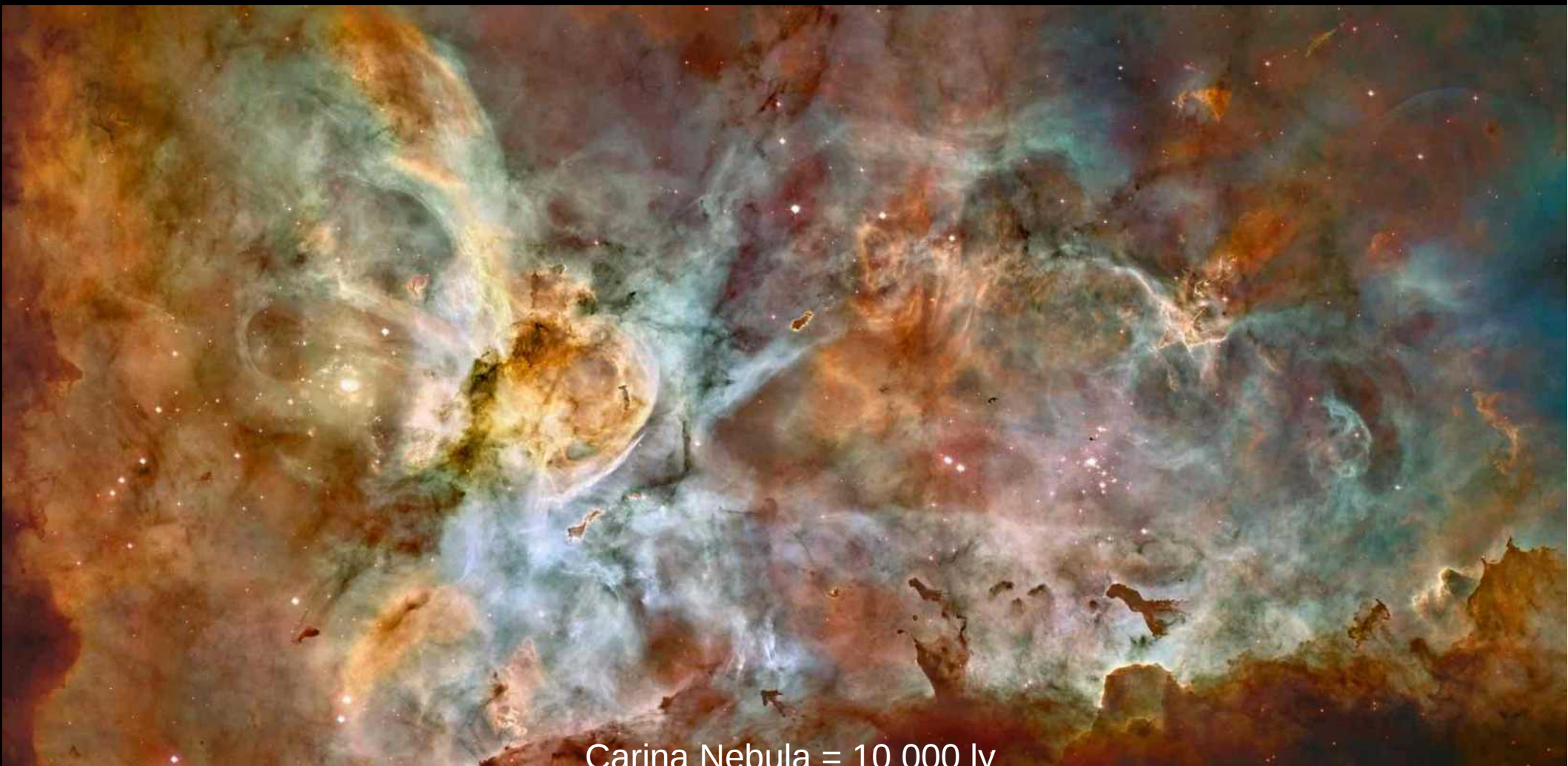
Tycho's Supernova = 8 000 ly



Pacman Nebula = 9 500 ly



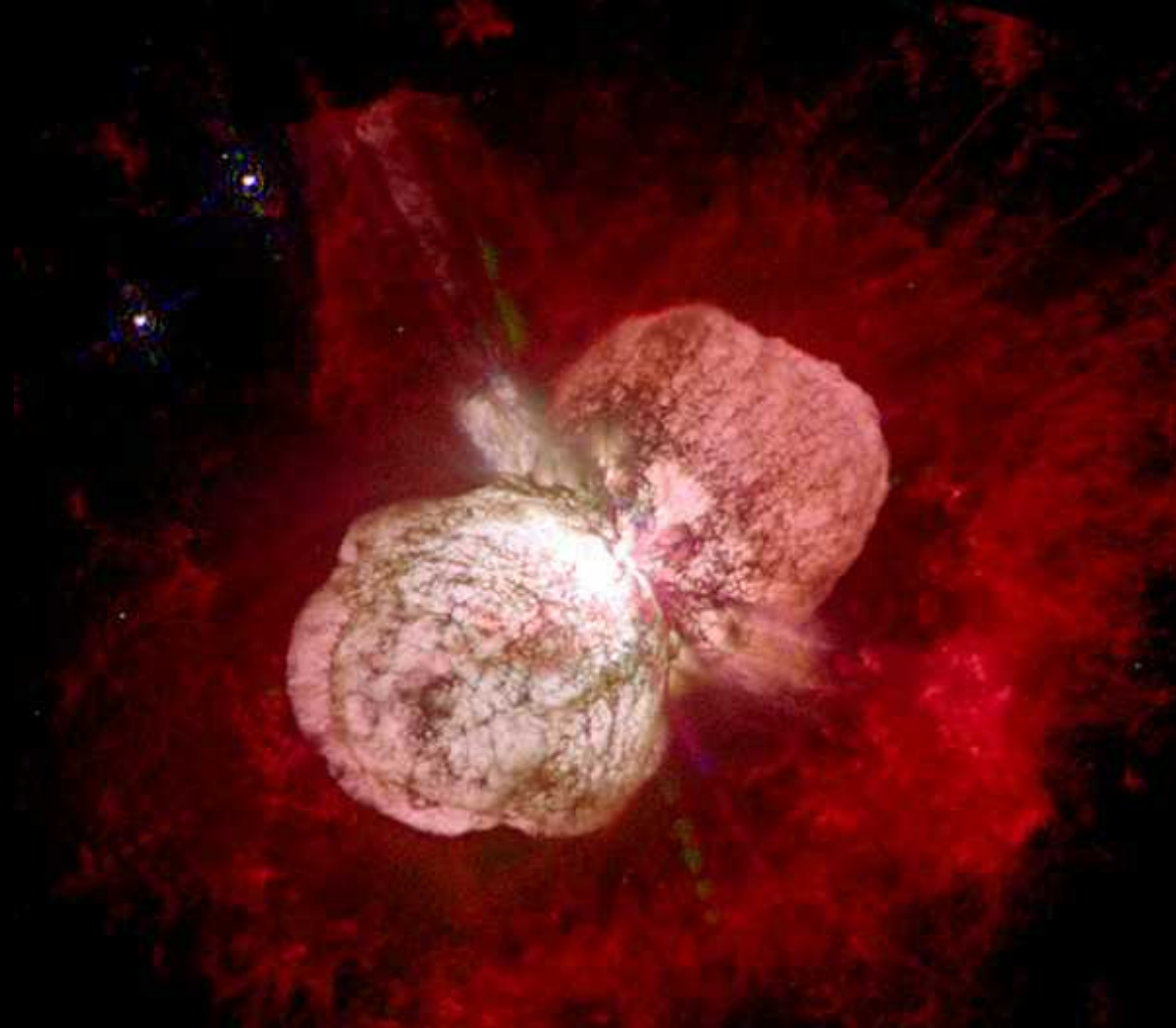
Carina Nebula = 10 000 ly



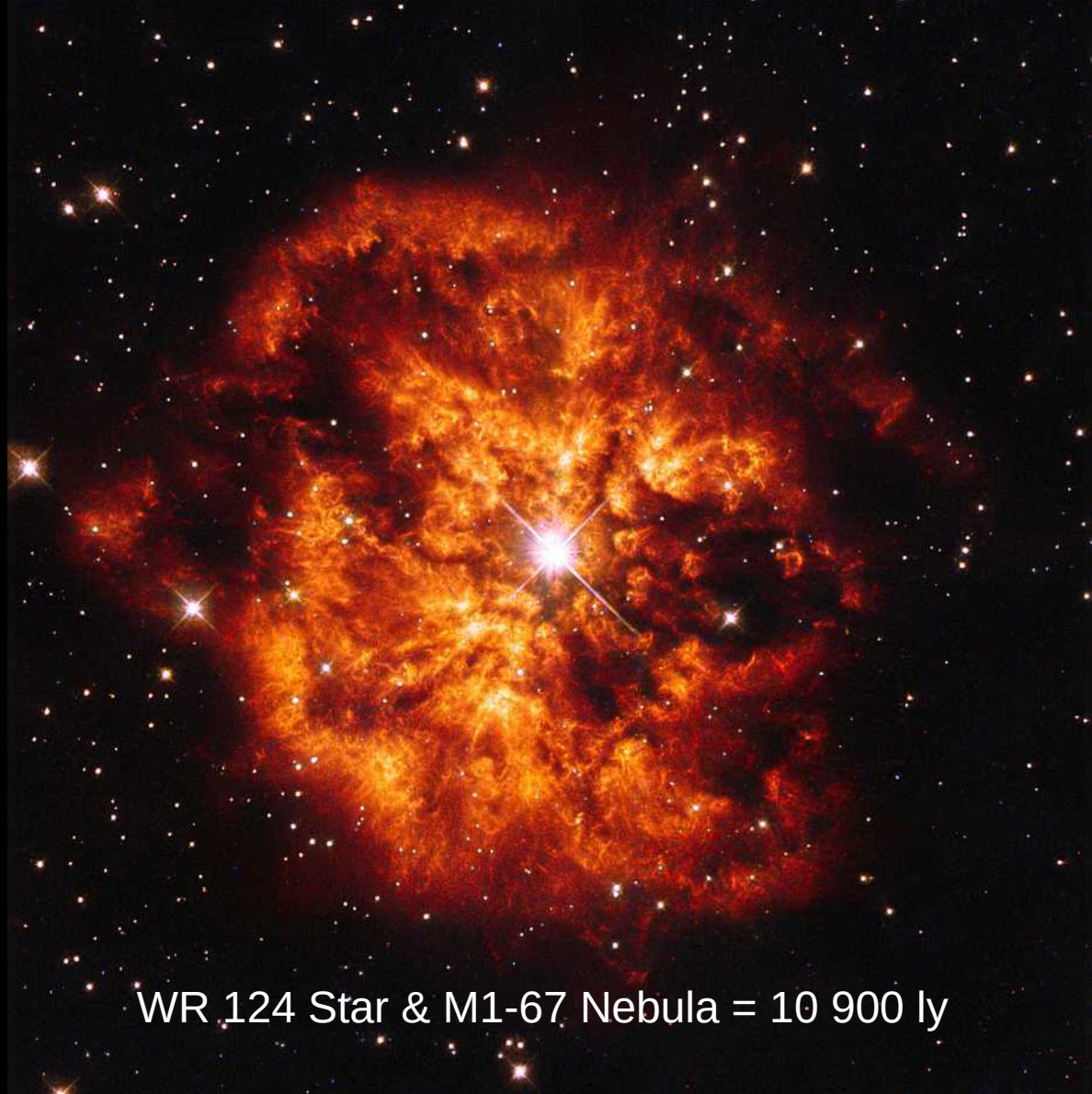
Carina Nebula = 10 000 ly



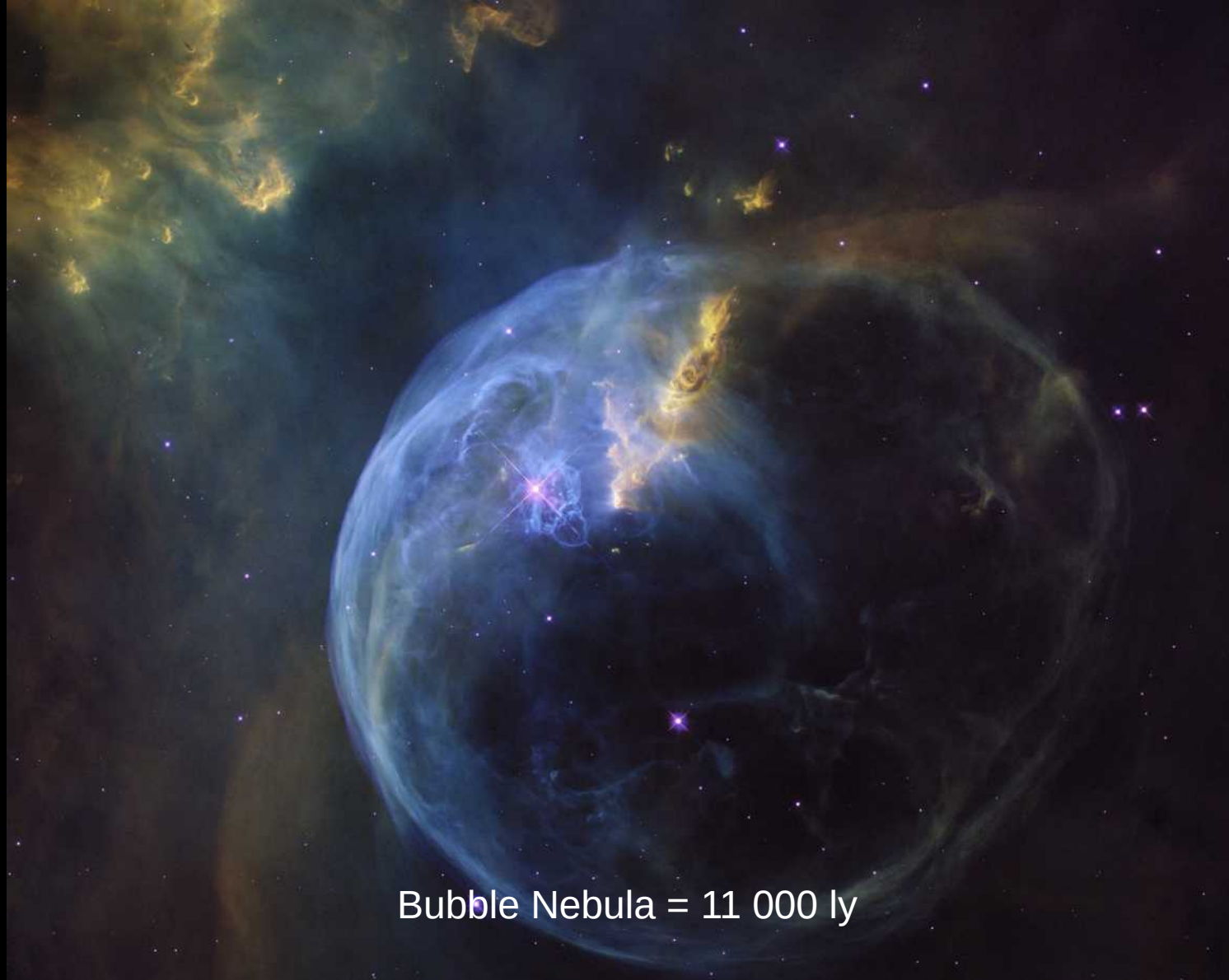
Carina Nebula 'Mystic Mountain' = 10 000 ly



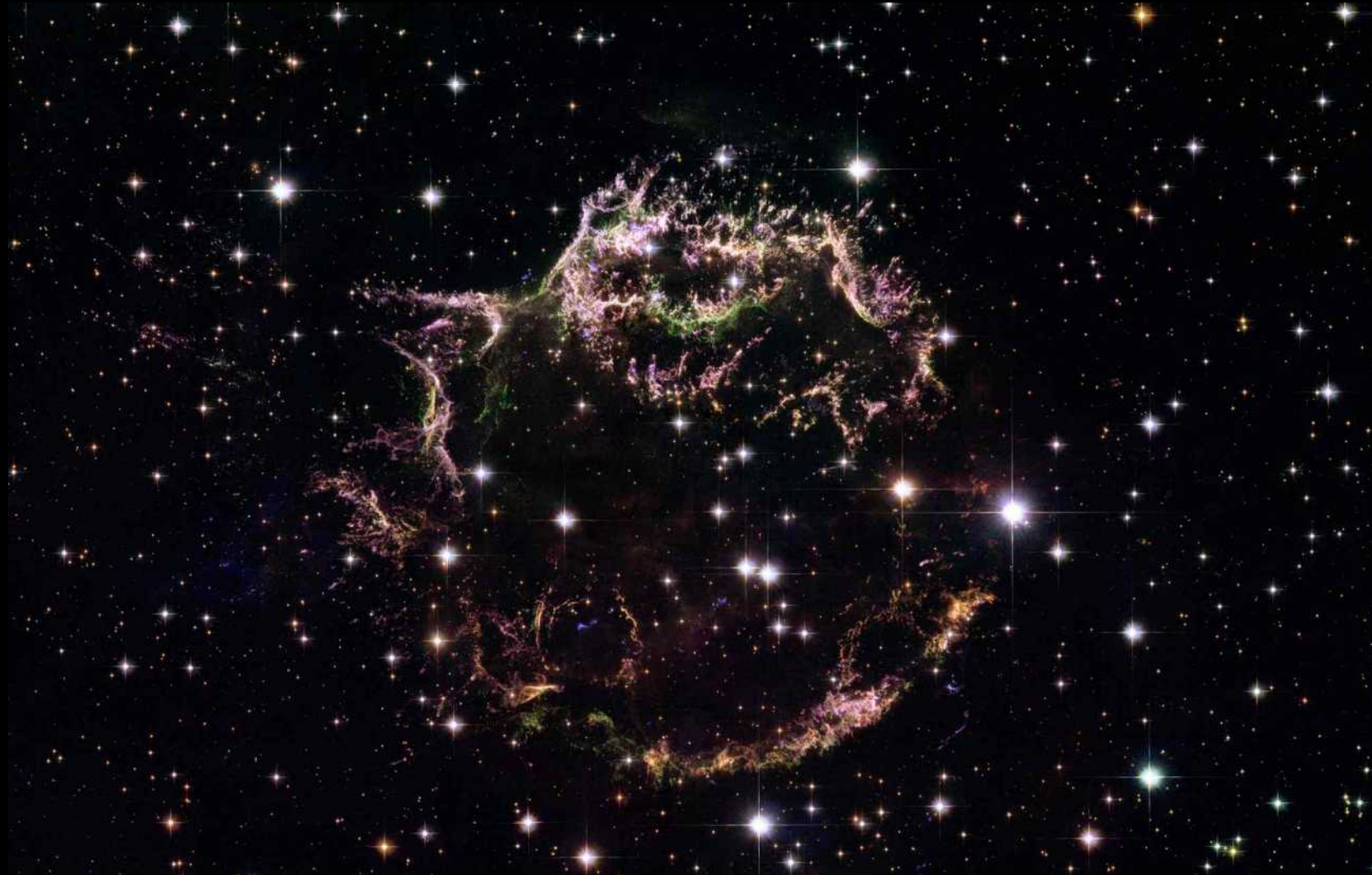
Carina Nebula Homunculus Nebula = 10 000 ly



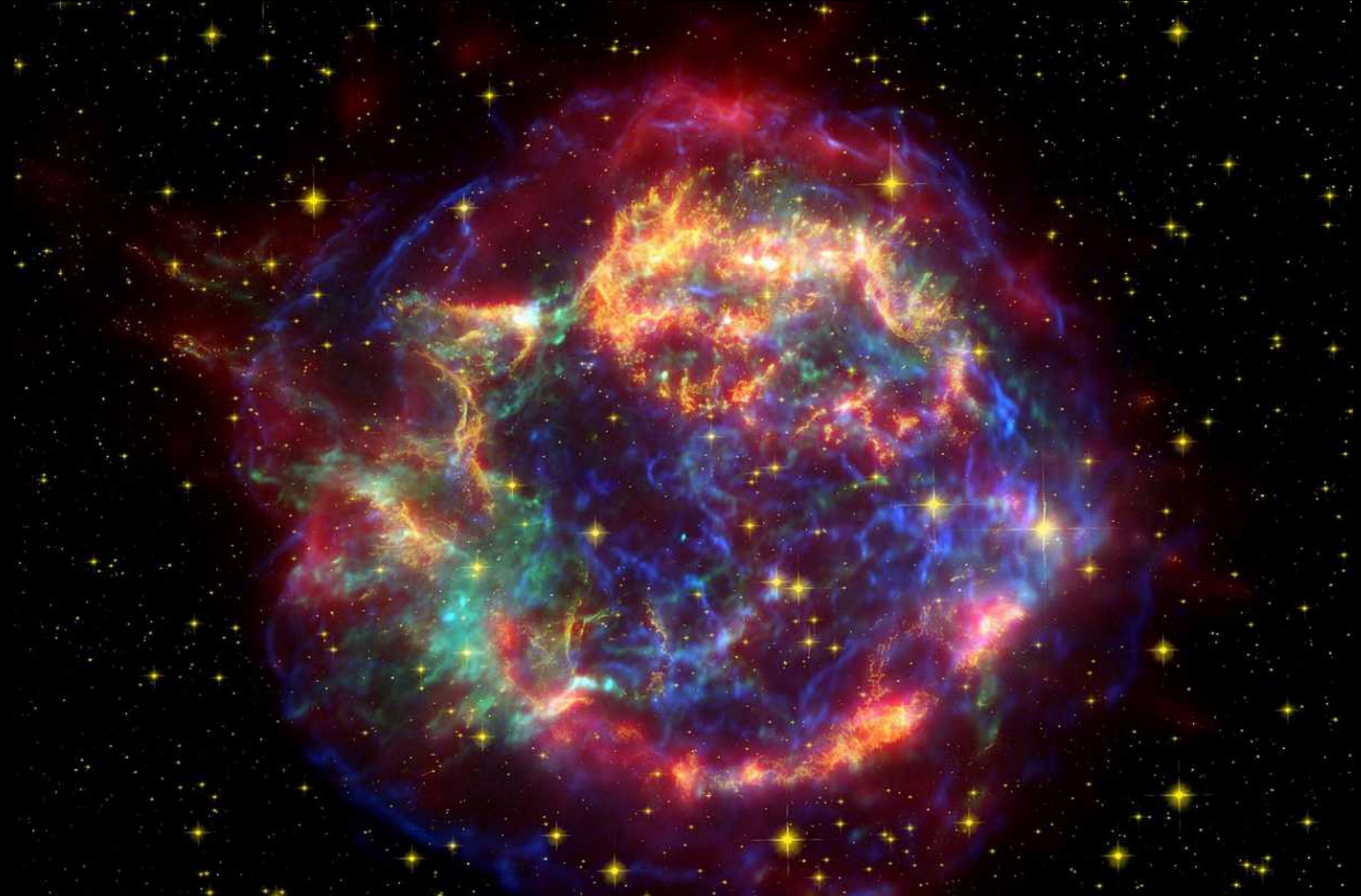
WR 124 Star & M1-67 Nebula = 10 900 ly



Bubble Nebula = 11 000 ly



Cassiopeia A Supernova = 11 000 ly



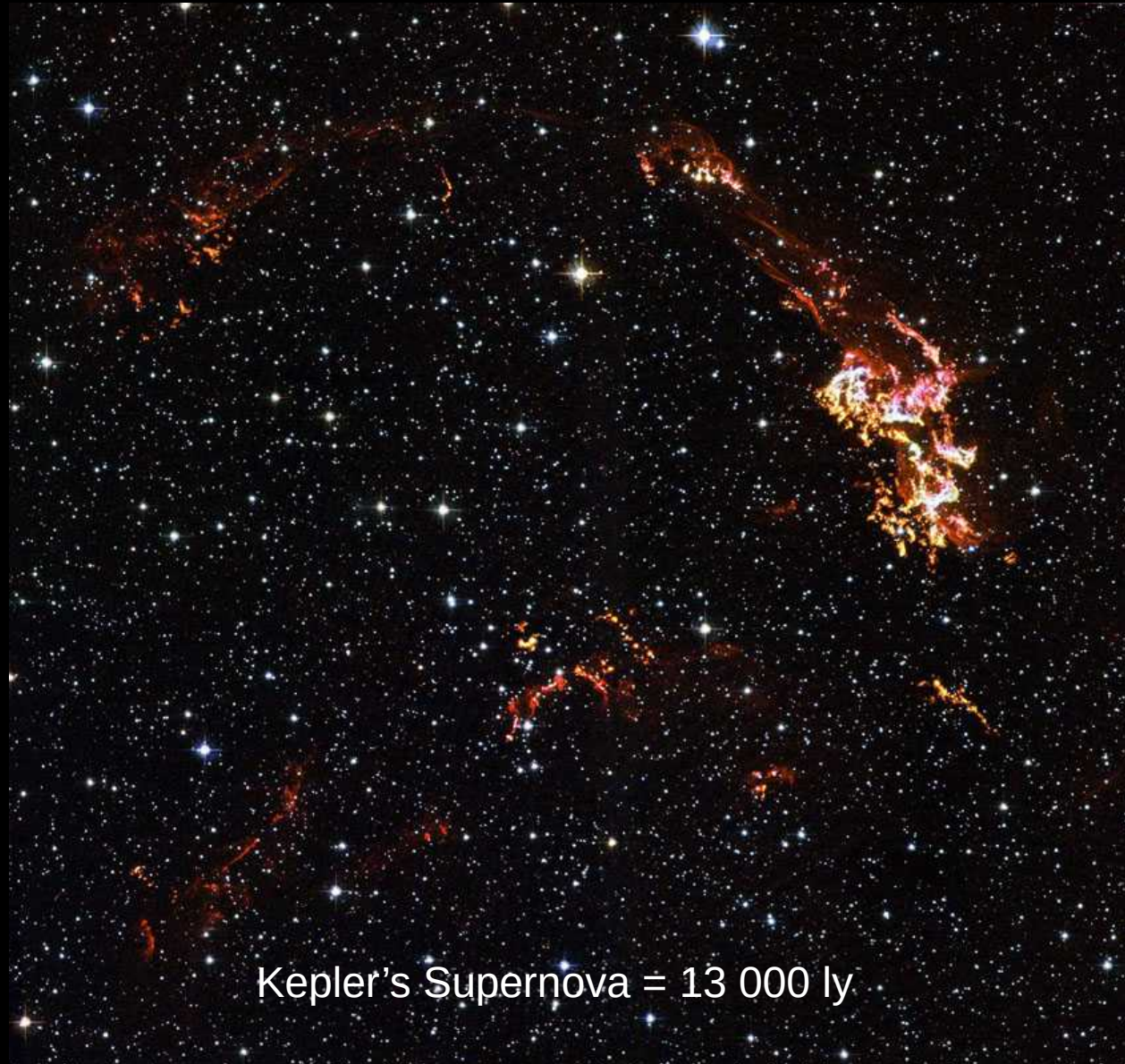
Cassiopeia A Supernova = 11 000 ly



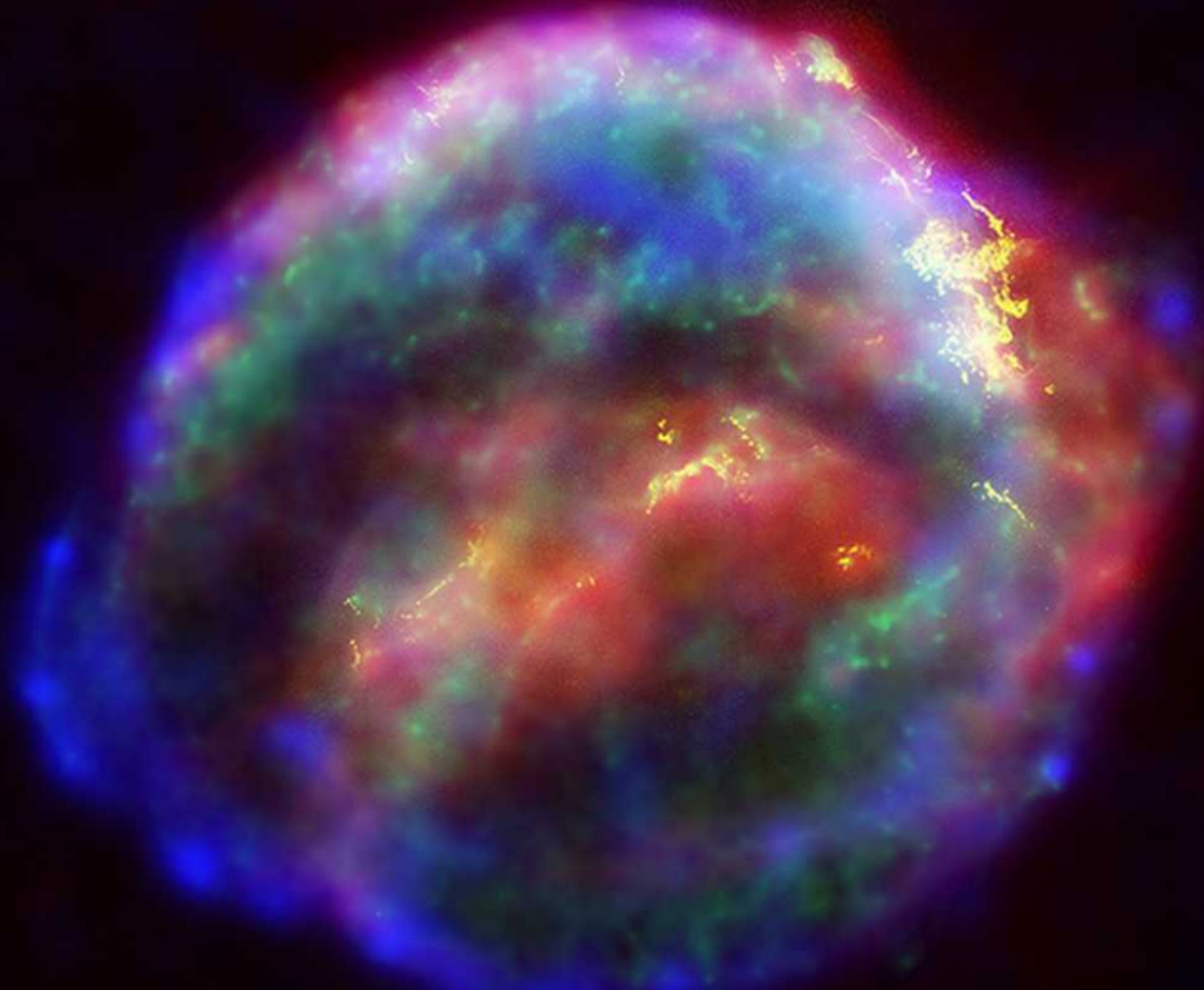
Thor's Helmet Nebula = 11 900 ly



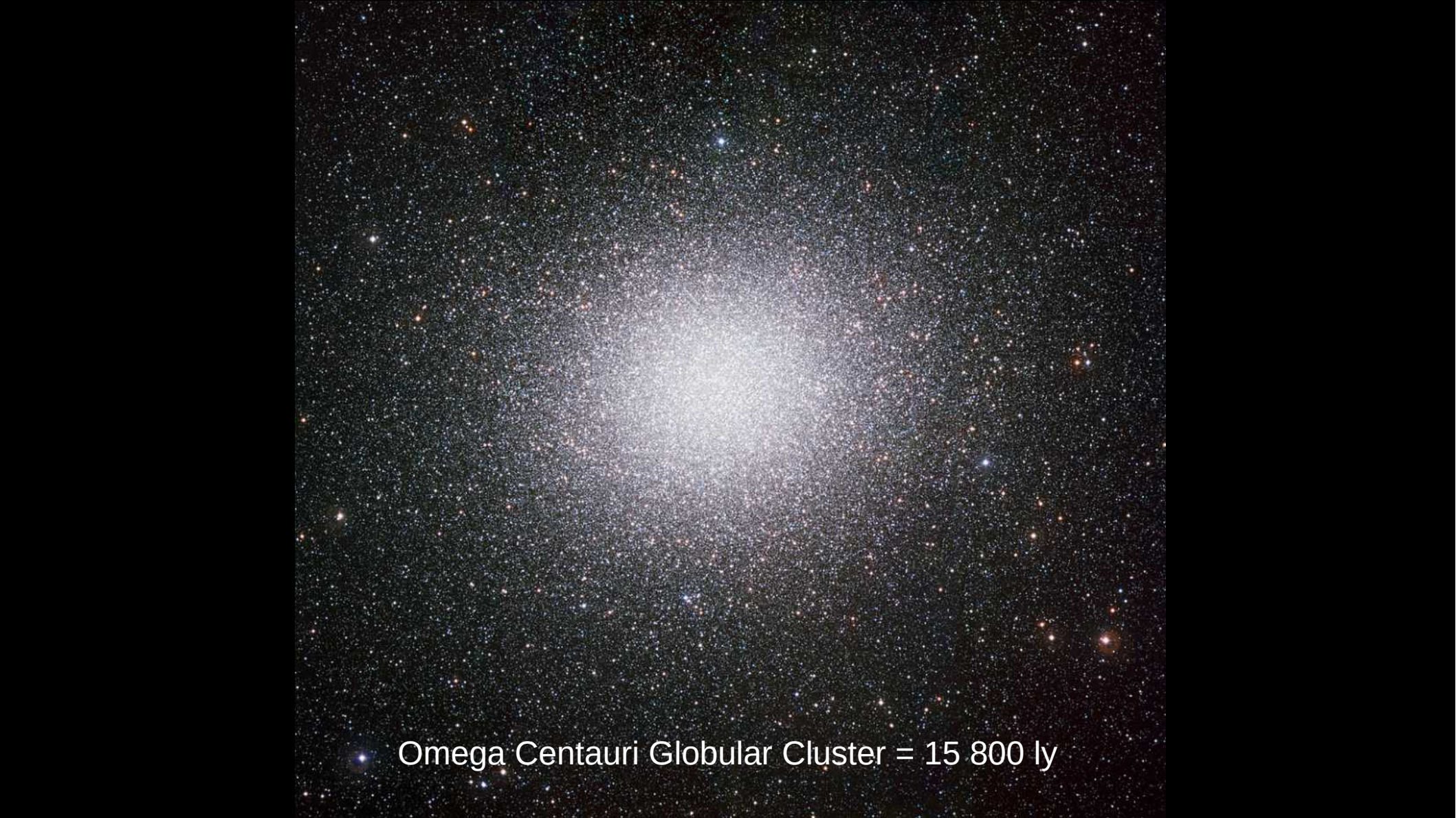
Westerlund 1 Star Cluster = 12 000 ly



Kepler's Supernova = 13 000 ly



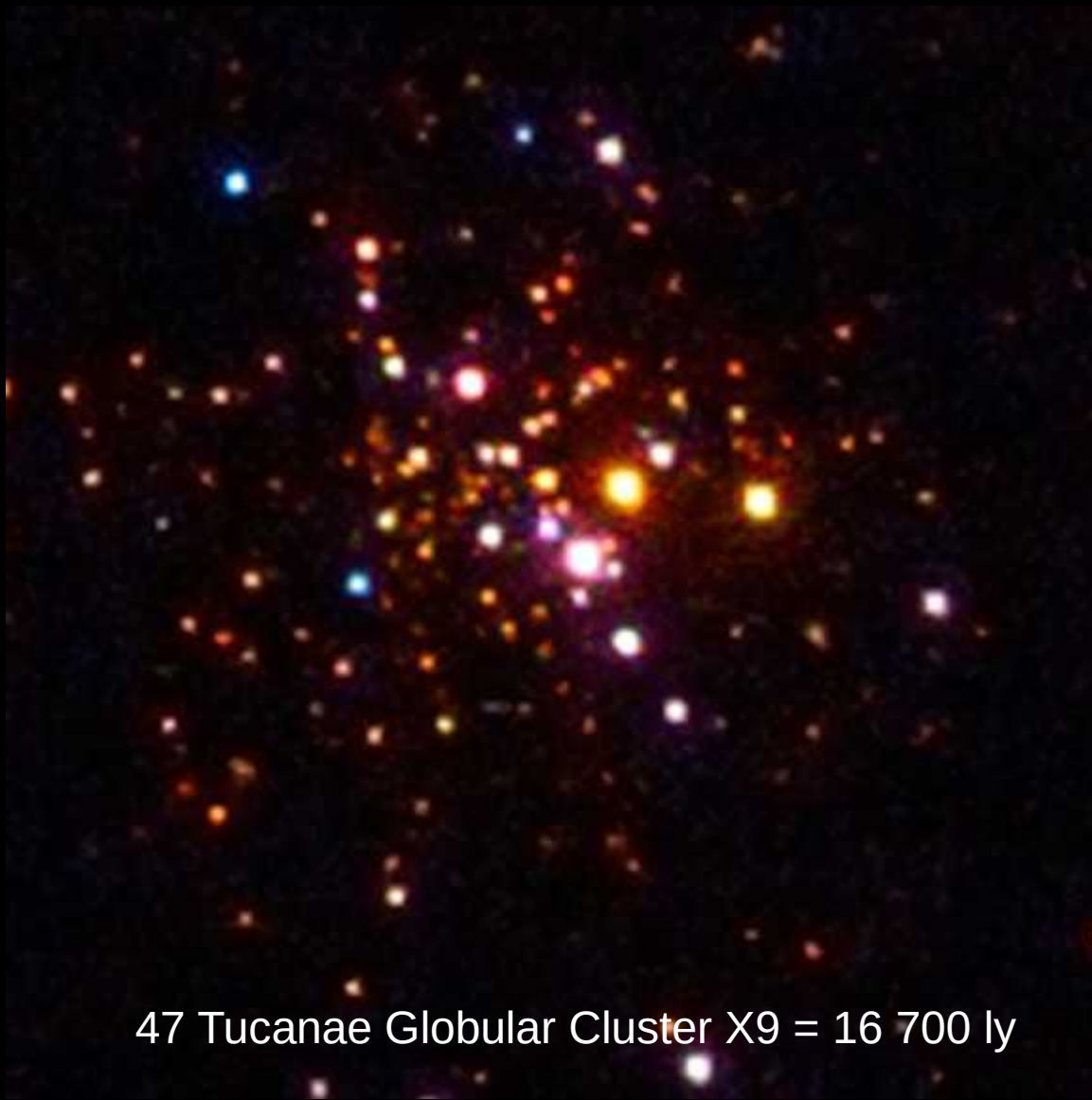
Kepler's Supernova = 13 000 ly

A wide-field photograph of the Omega Centauri Globular Cluster, showing a dense concentration of stars in the center that gradually thins out towards the edges. The stars exhibit a variety of colors, including white, yellow, orange, and blue. The background is a deep black, making the individual points of light stand out sharply.

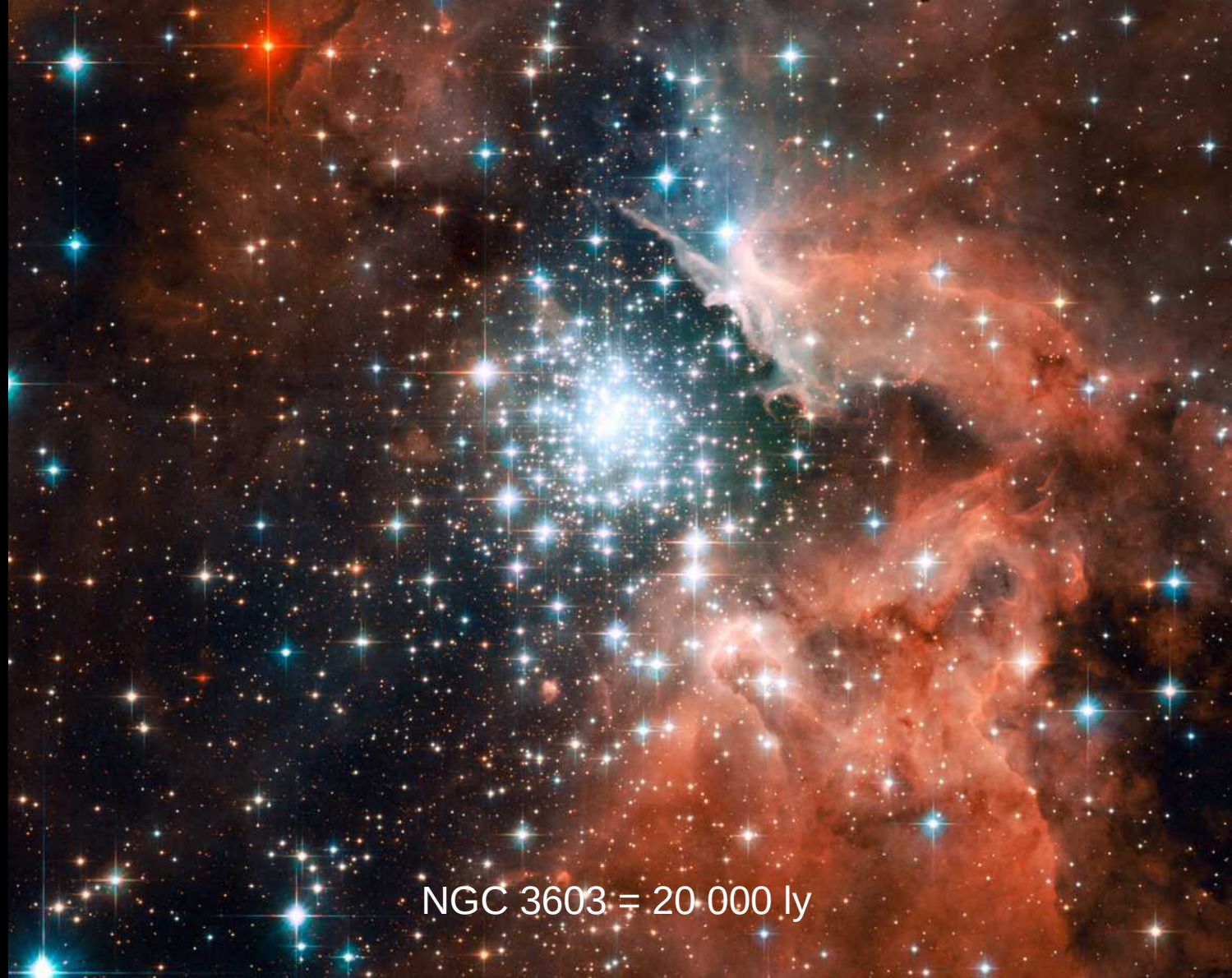
Omega Centauri Globular Cluster = 15 800 ly

A dense field of stars, likely a globular cluster, showing a color gradient from blue to red. The stars are densely packed, with a concentration in the center. The colors range from bright blue and white to yellow, orange, and red, indicating a wide range of stellar populations. The background is dark, making the individual stars stand out.

47 Tucanae Globular Cluster = 16 700 ly



47 Tucanae Globular Cluster X9 = 16 700 ly



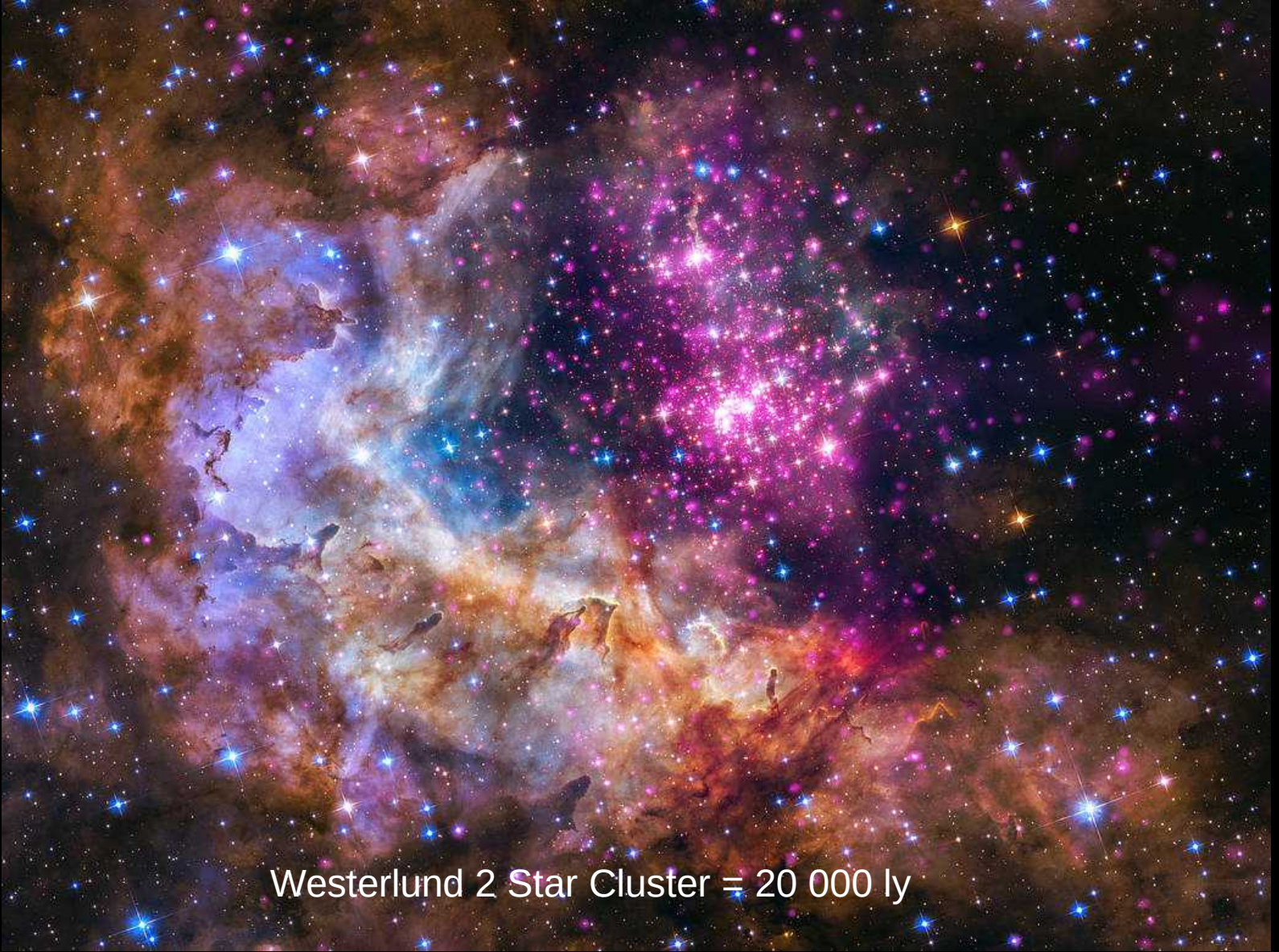
NGC 3603 = 20 000 ly



V838 Monocerotis Variable Star = 20 000 ly



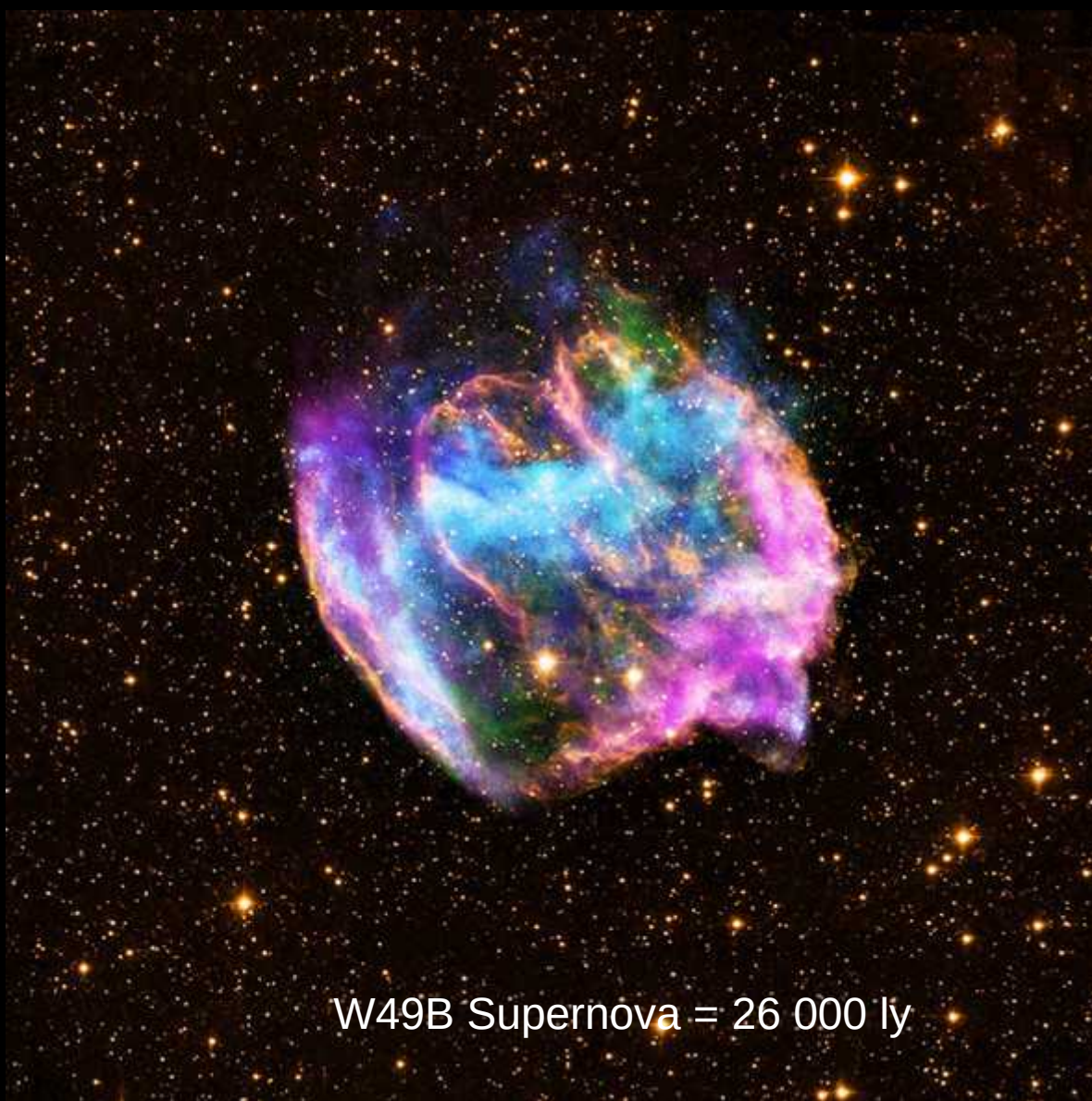
V838 Monocerotis Variable Star = 20 000 ly



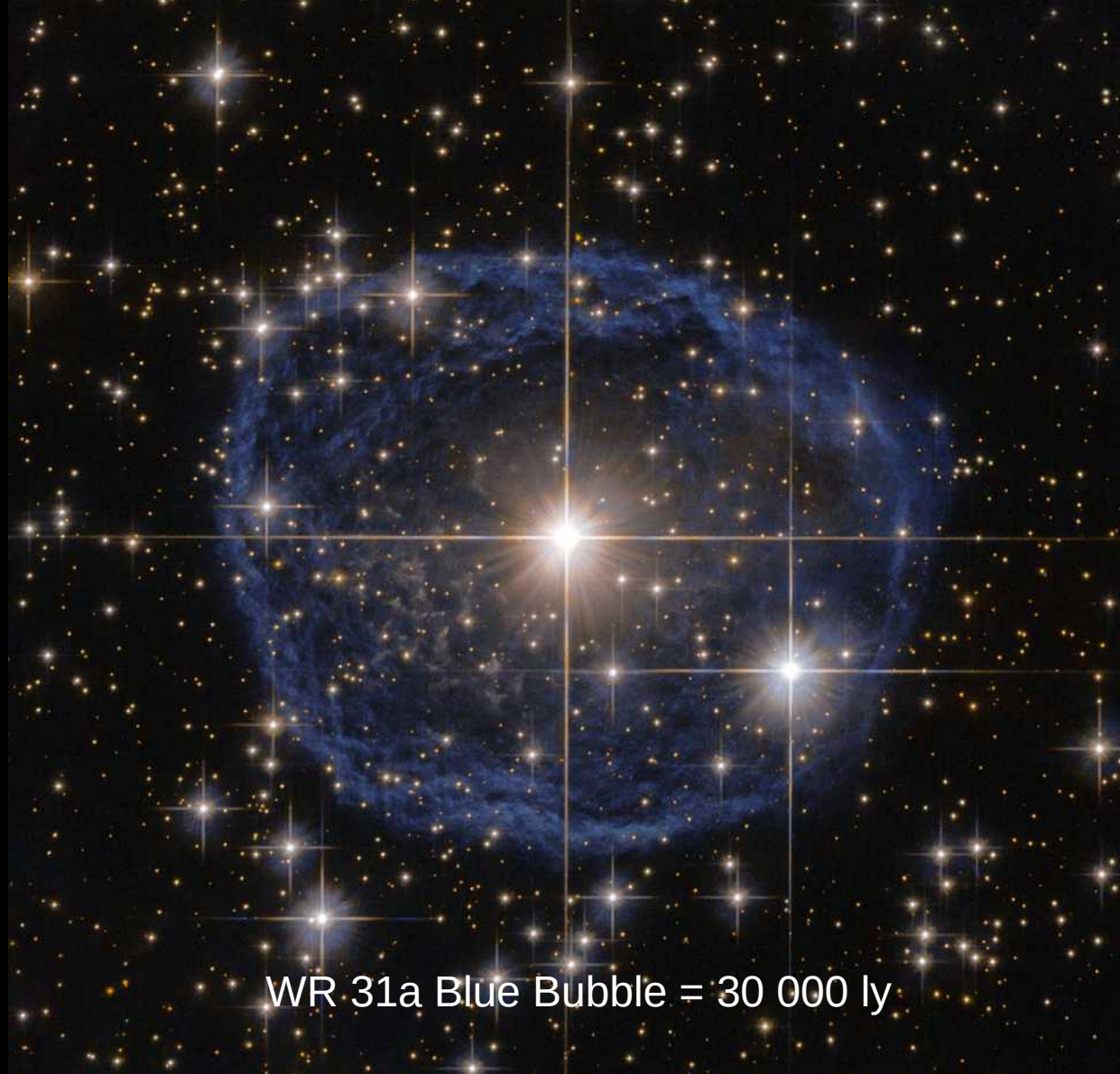
Westerlund 2 Star Cluster = 20 000 ly



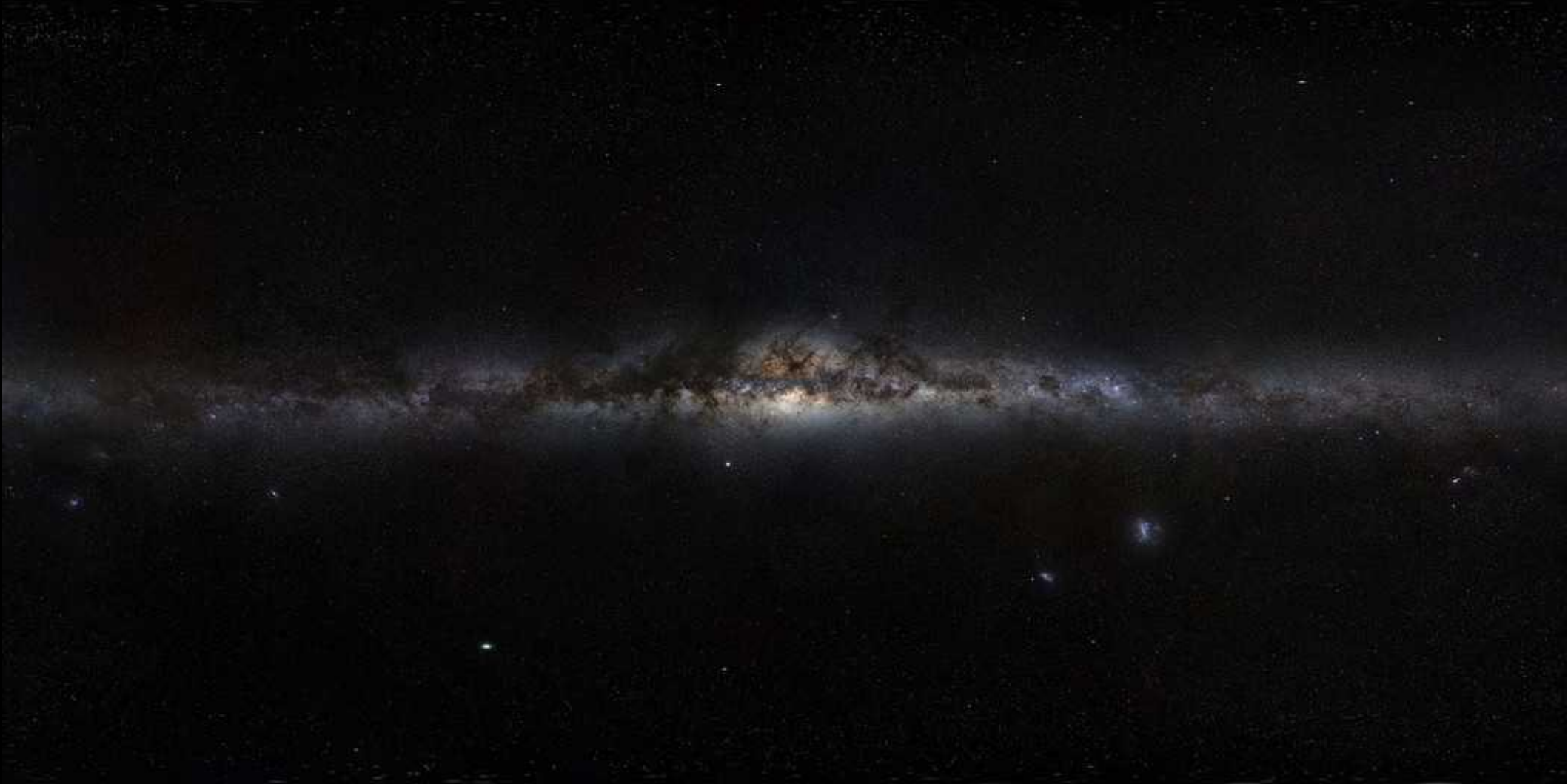
Hercules Globular Cluster = 25 100 ly



W49B Supernova = 26 000 ly



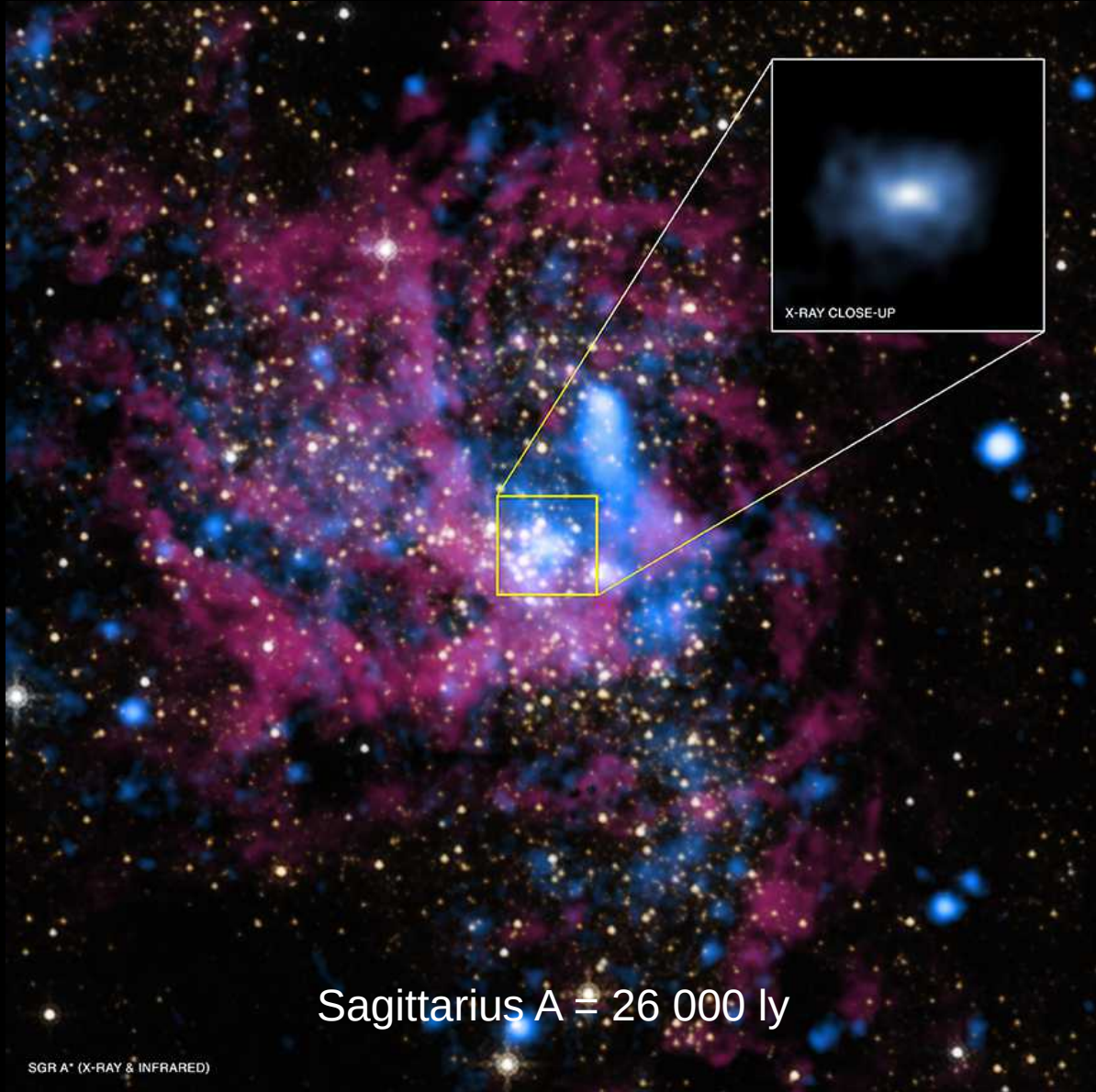
WR 31a Blue Bubble = 30 000 ly



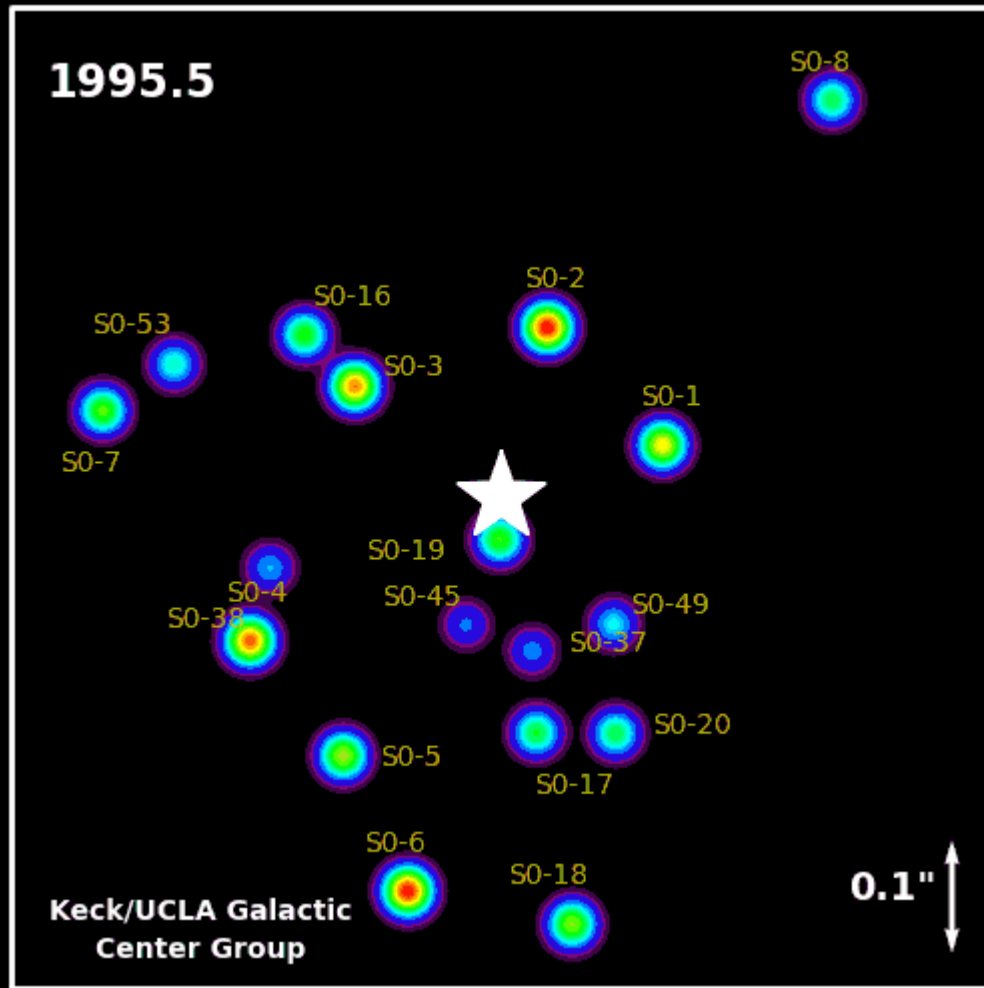
Milky Way Galaxy Center = 26 000 ly



Sagittarius A = 26 000 ly



Sagittarius A = 26 000 ly



Sagittarius A = 26 000 ly

Celebrating the Wonder of the Night Sky

Local Group of Galaxies







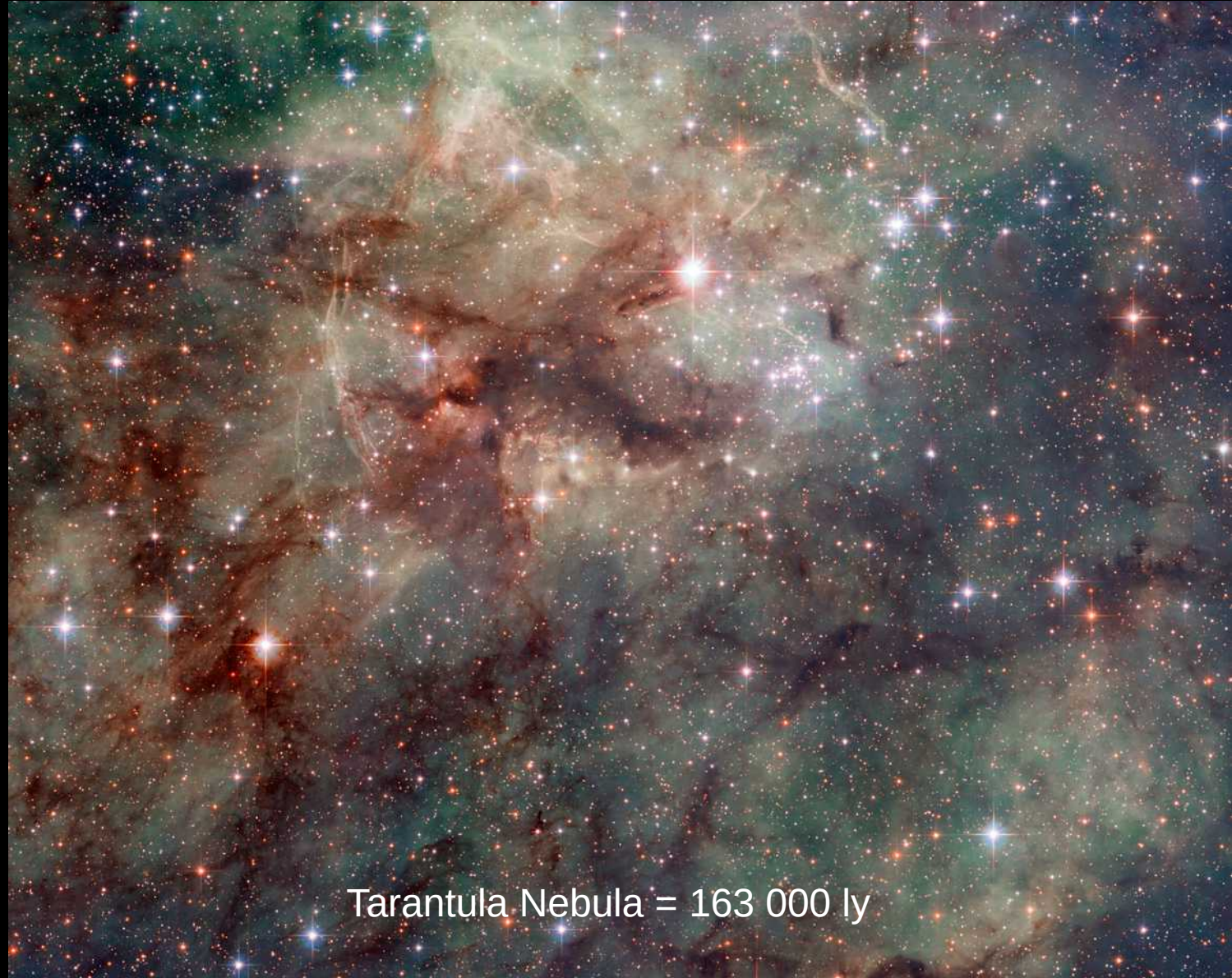
Large Magellenic Cloud = 163 000 ly



Large Magellenic Cloud = 163 000 ly



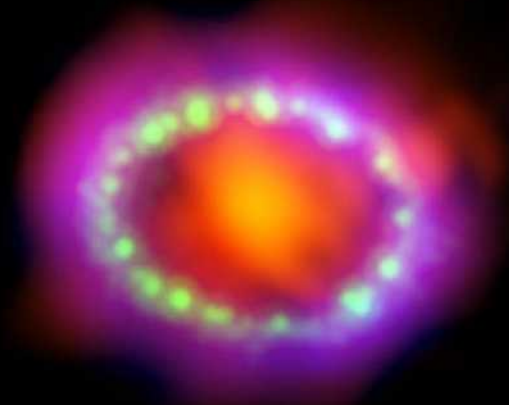
Large Magellenic Cloud = 163 000 ly



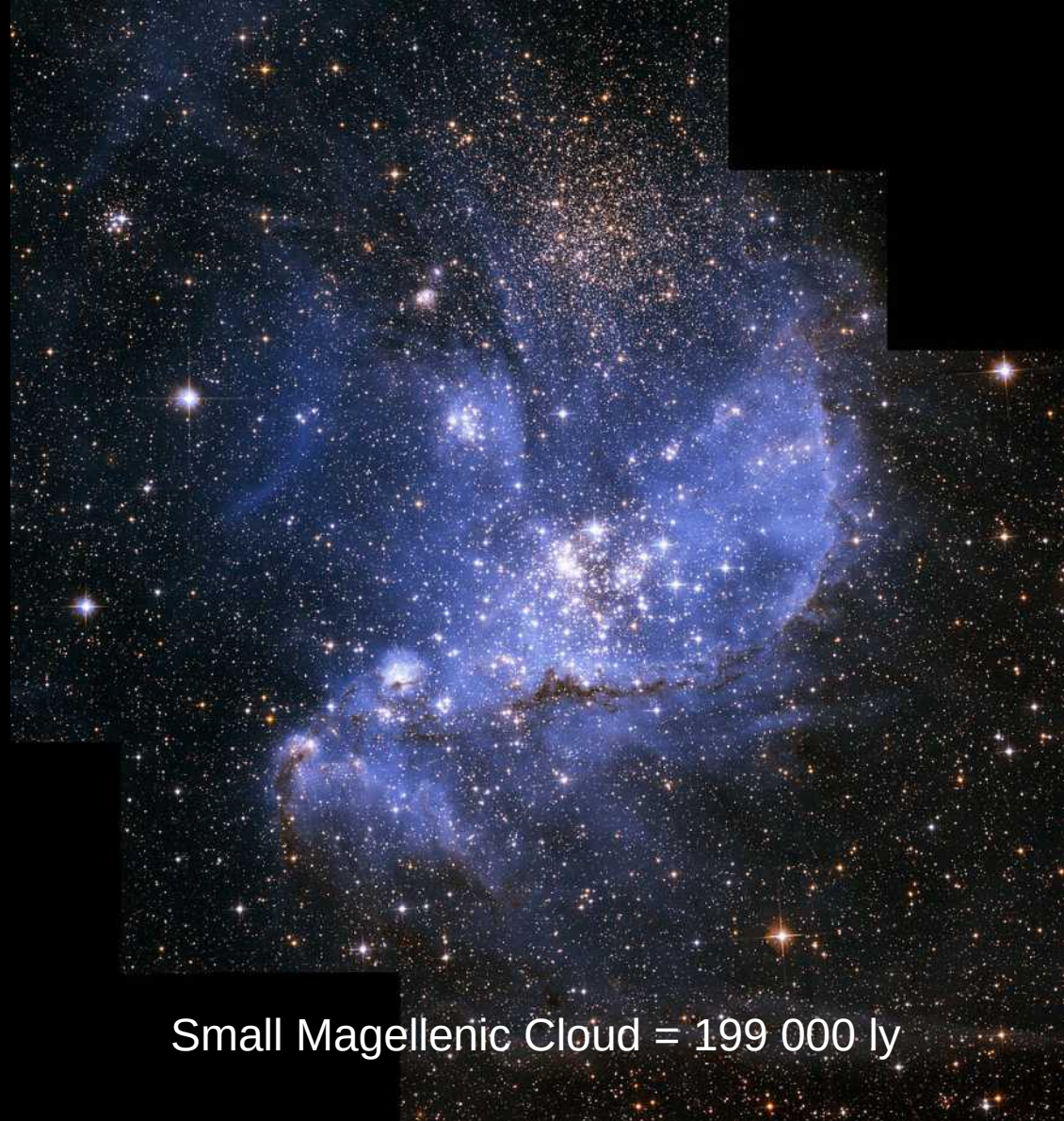
Tarantula Nebula = 163 000 ly



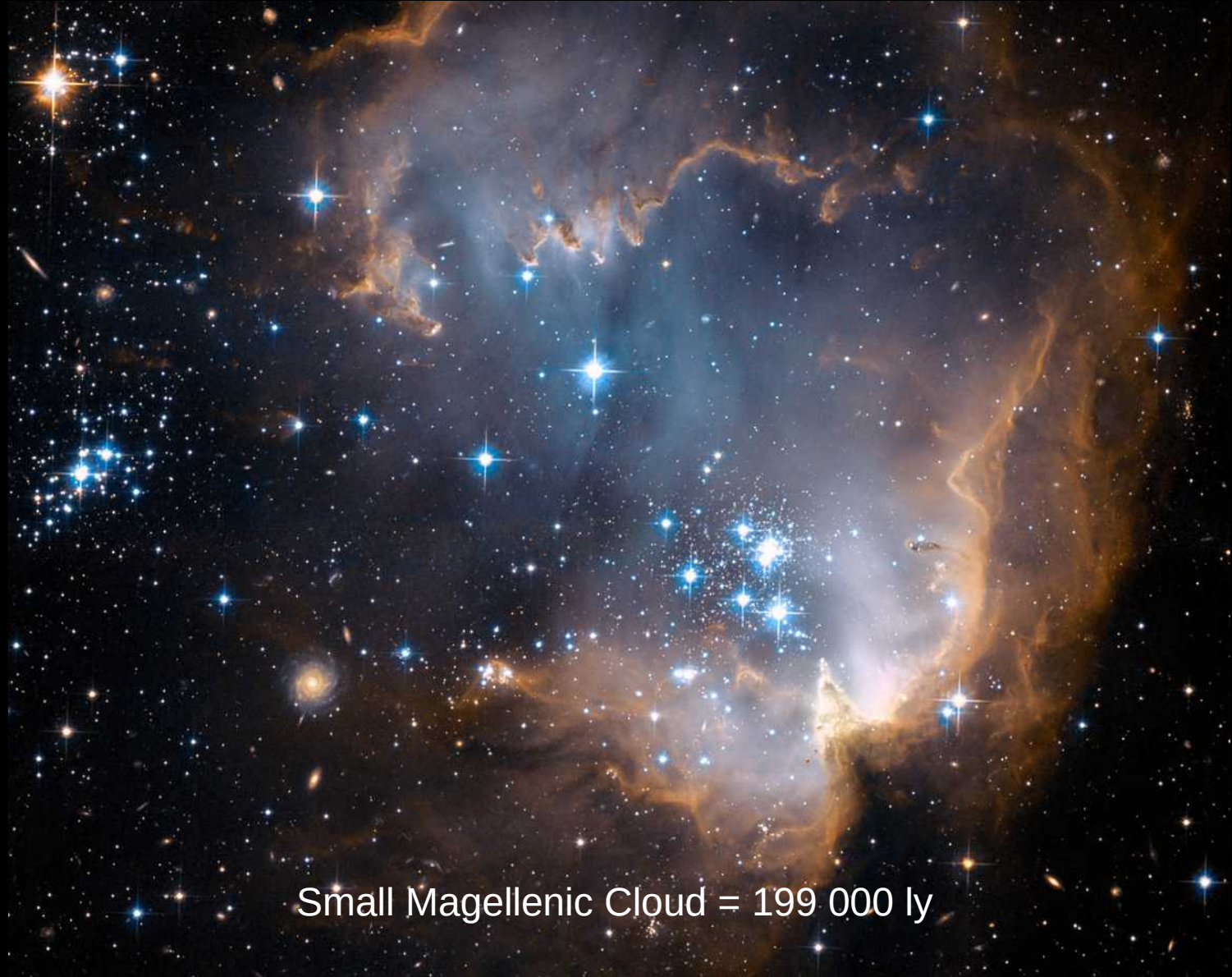
SN1987a Super Nova = 163 000 ly



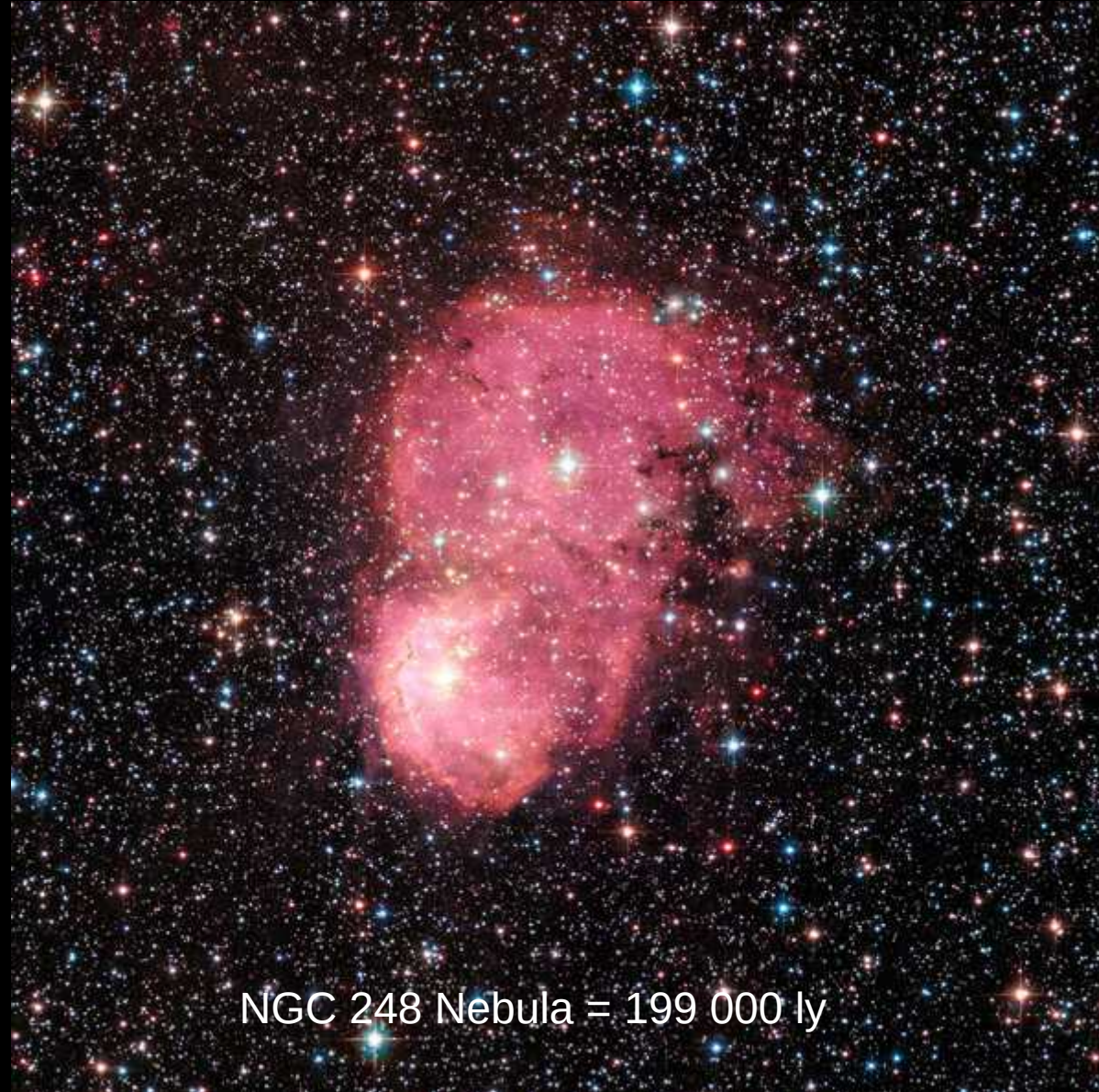
SN1987a Super Nova = 163 000 ly



Small Magellenic Cloud = 199 000 ly



Small Magellenic Cloud = 199 000 ly



NGC 248 Nebula = 199 000 ly



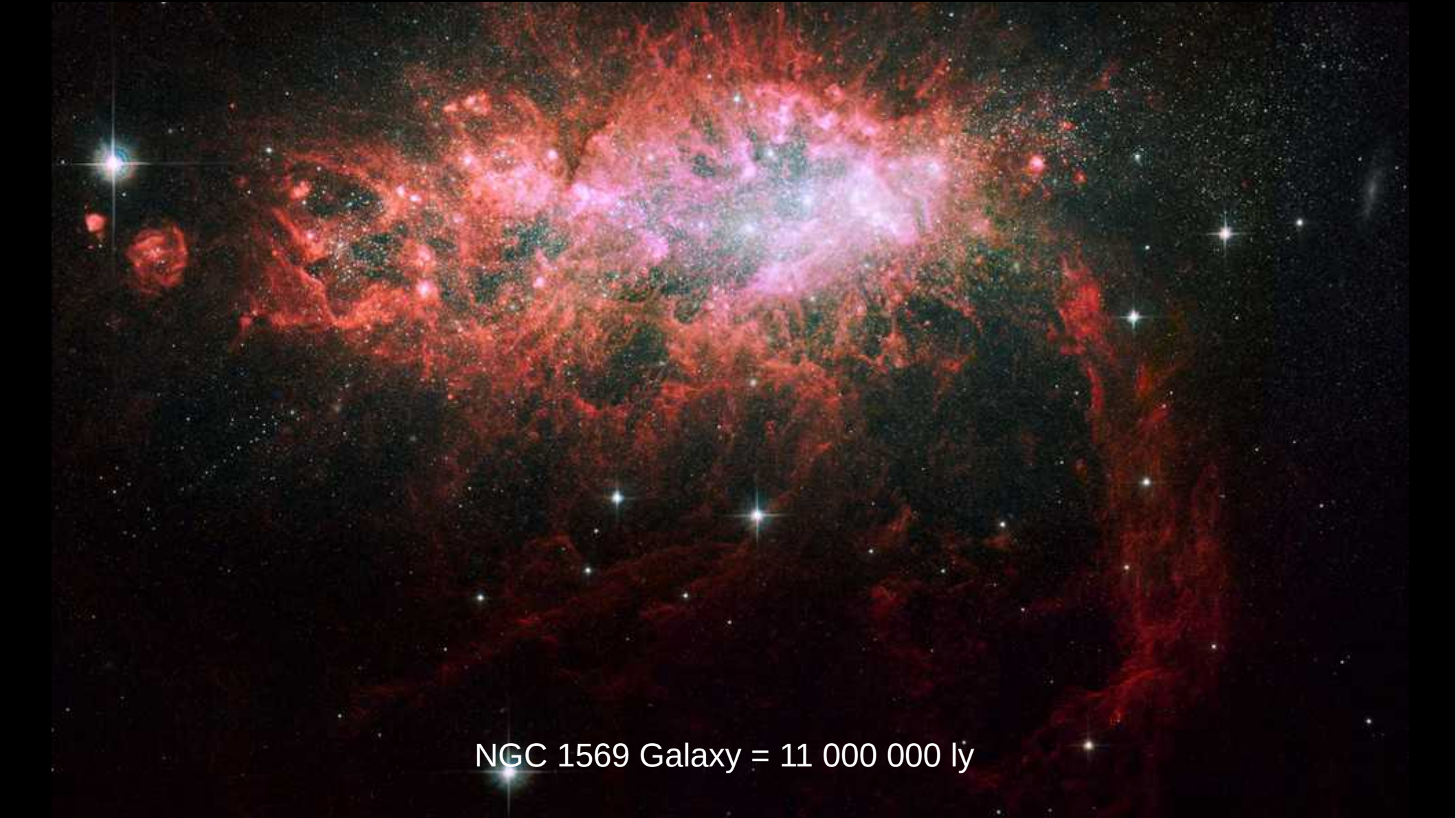
Andromeda Galaxy = 2 500 000 ly



Triangulum Galaxy = 3 000 000 ly

Celebrating the Wonder of the Night Sky

Universe



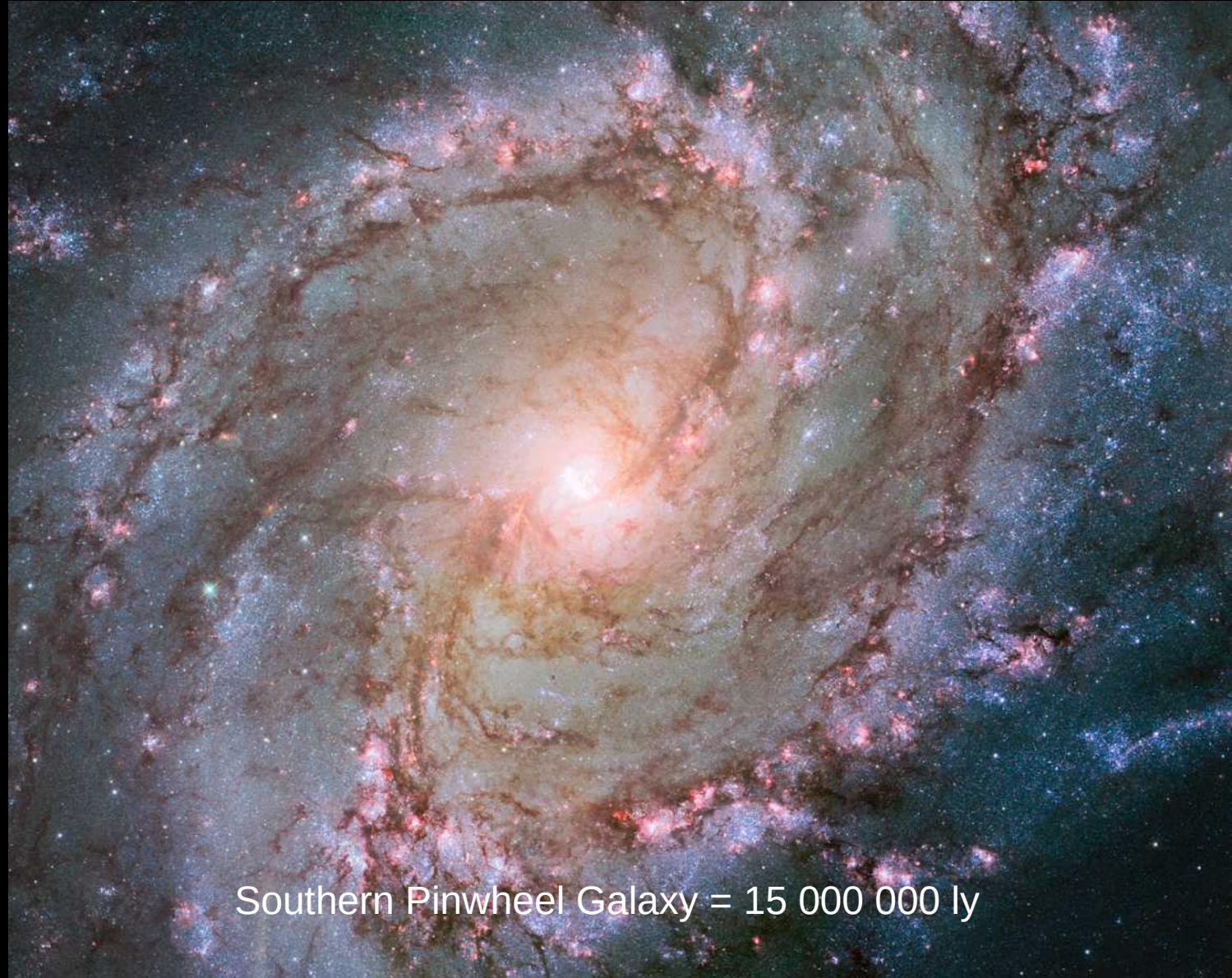
NGC 1569 Galaxy = 11 000 000 ly



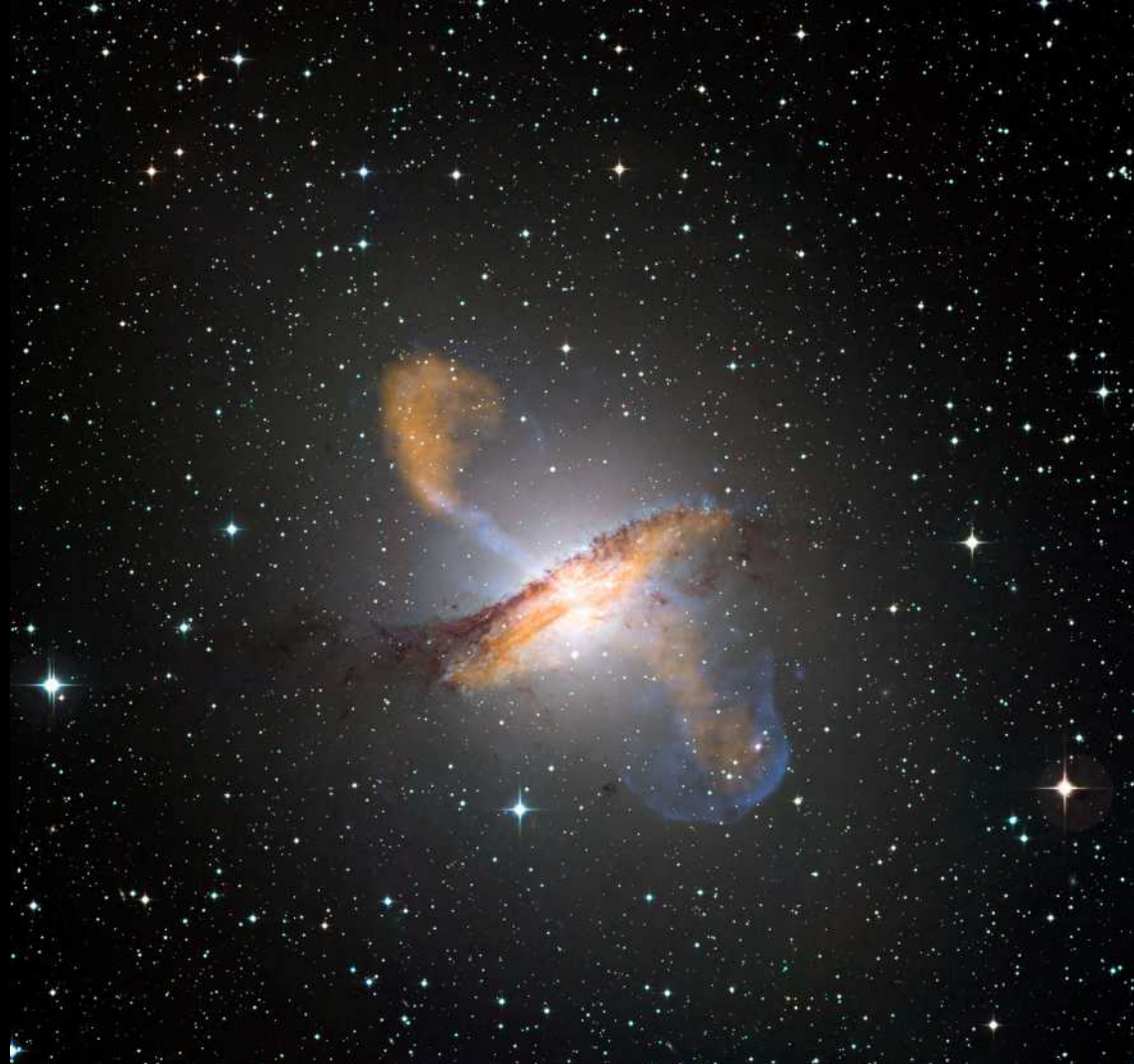
Bode's Galaxy = 12 000 000 ly



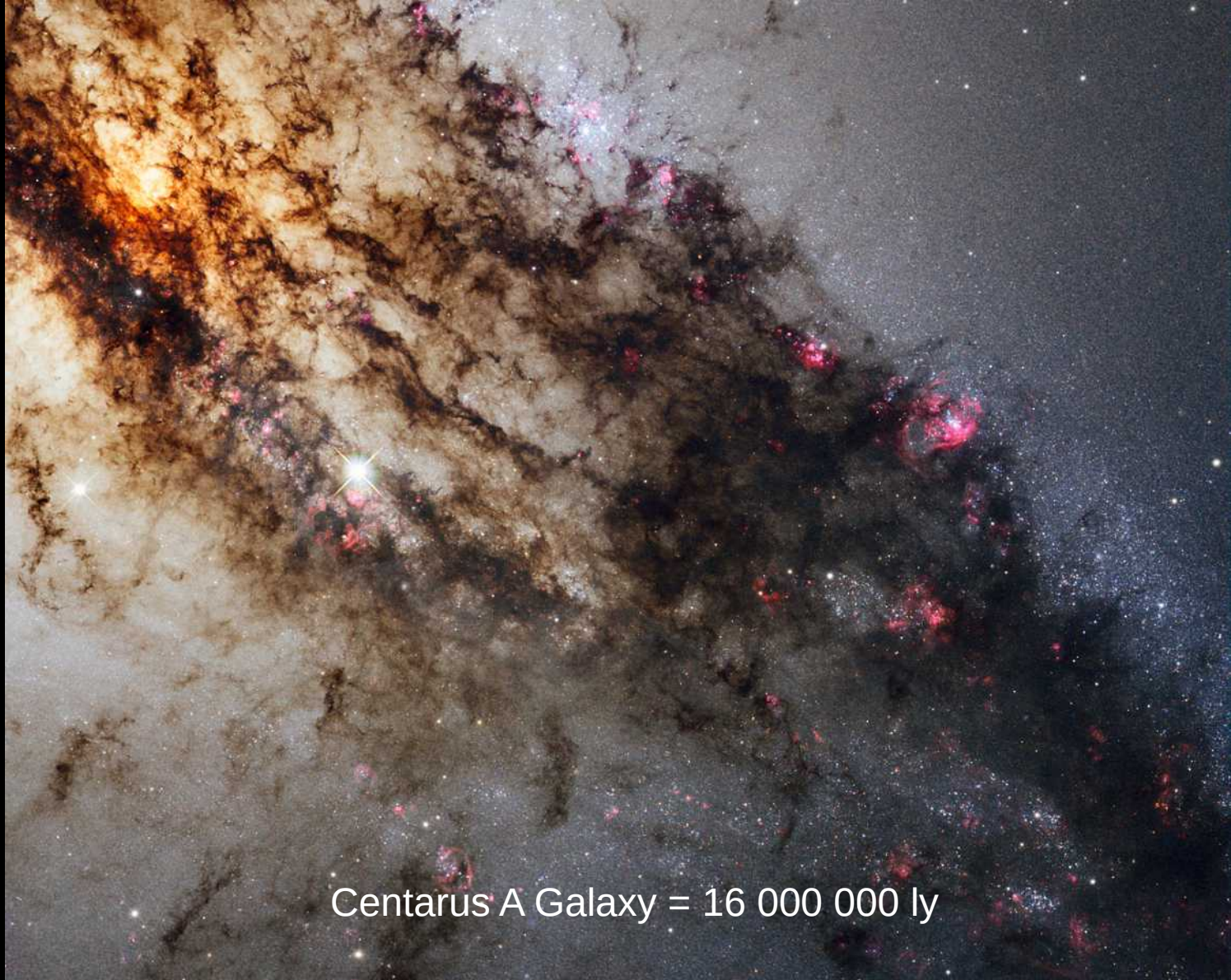
Cigar Galaxy = 12 000 000 ly



Southern Pinwheel Galaxy = 15 000 000 ly



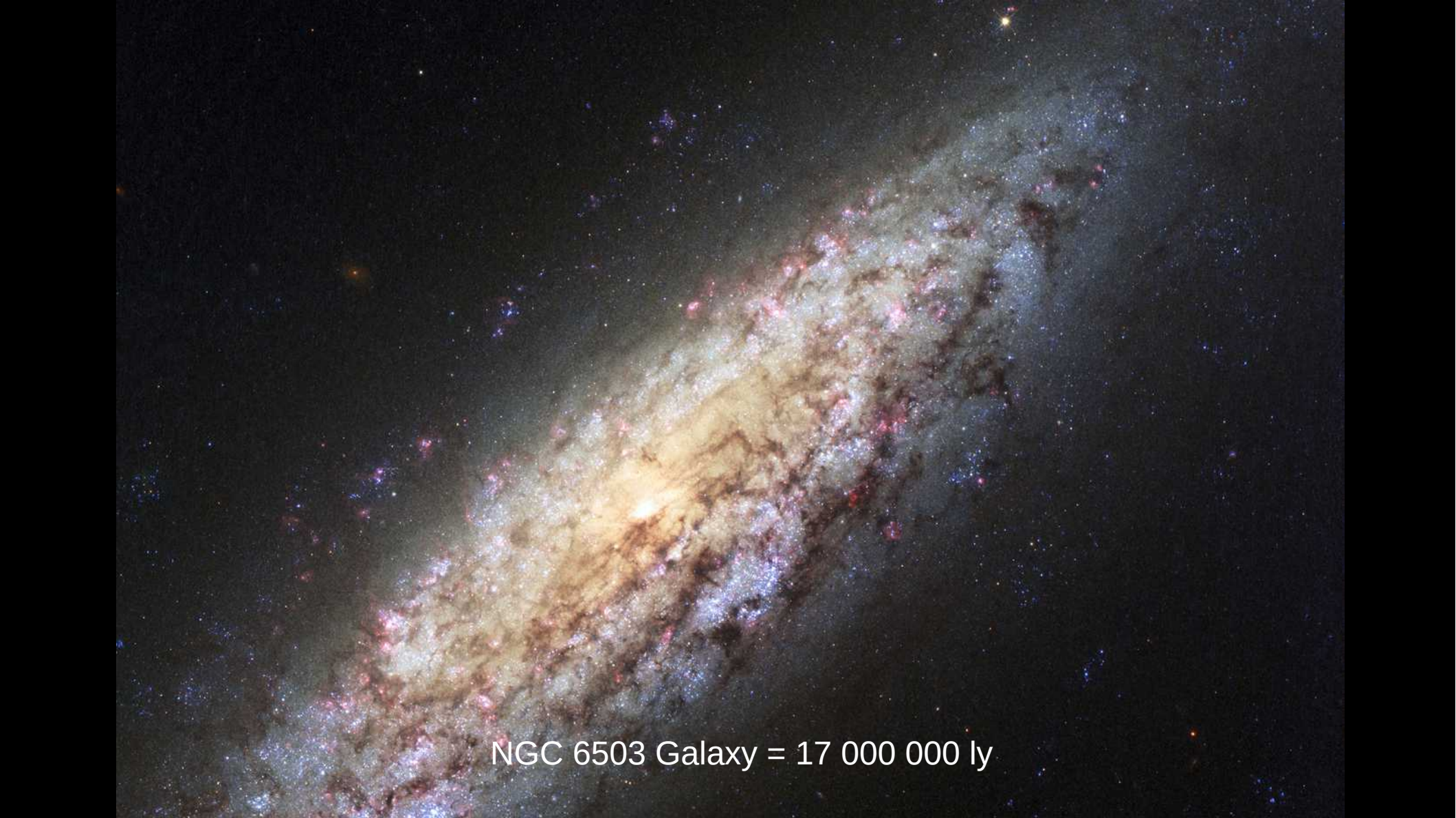
Centarus A Galaxy = 16 000 000 ly



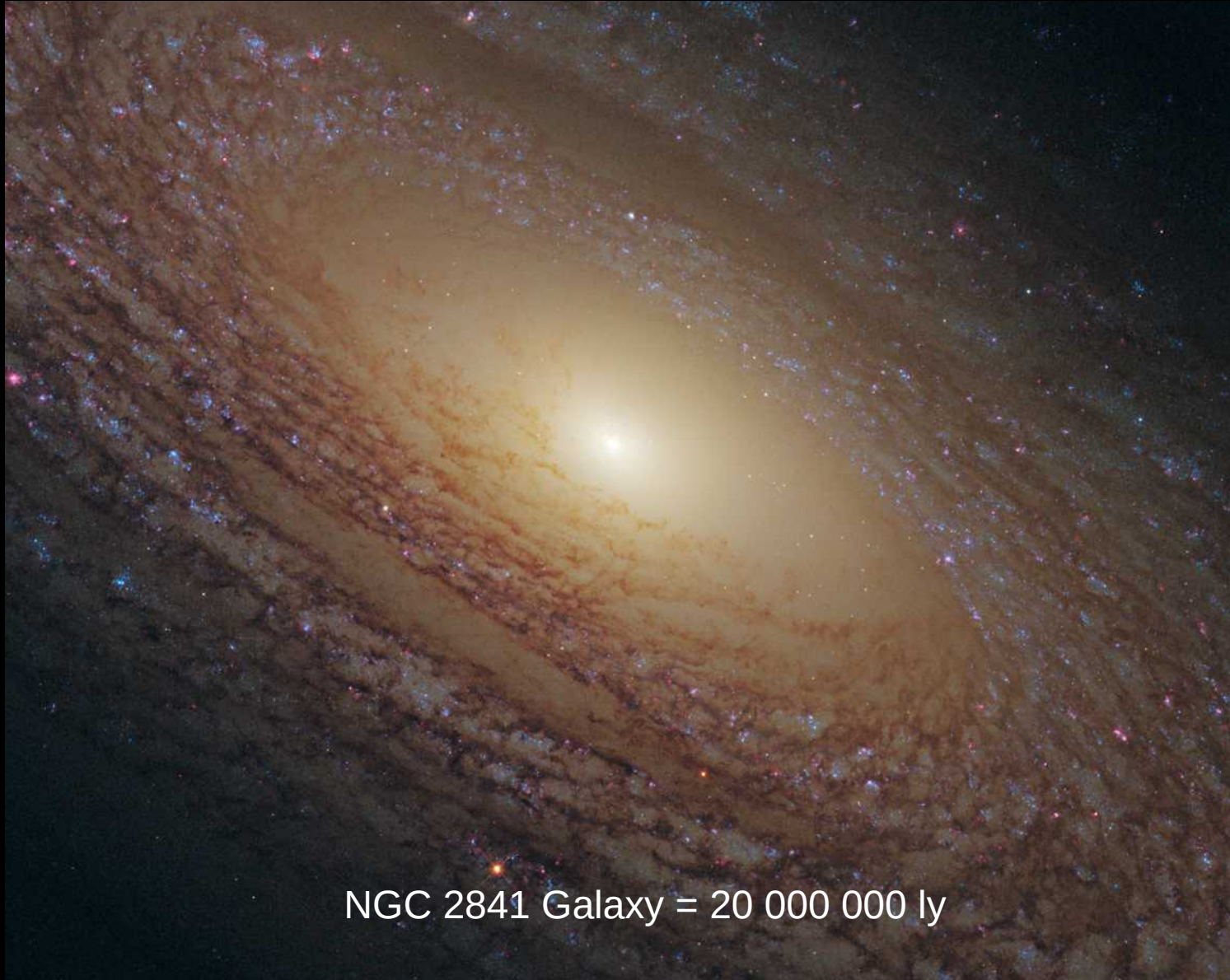
Centarus A Galaxy = 16 000 000 ly



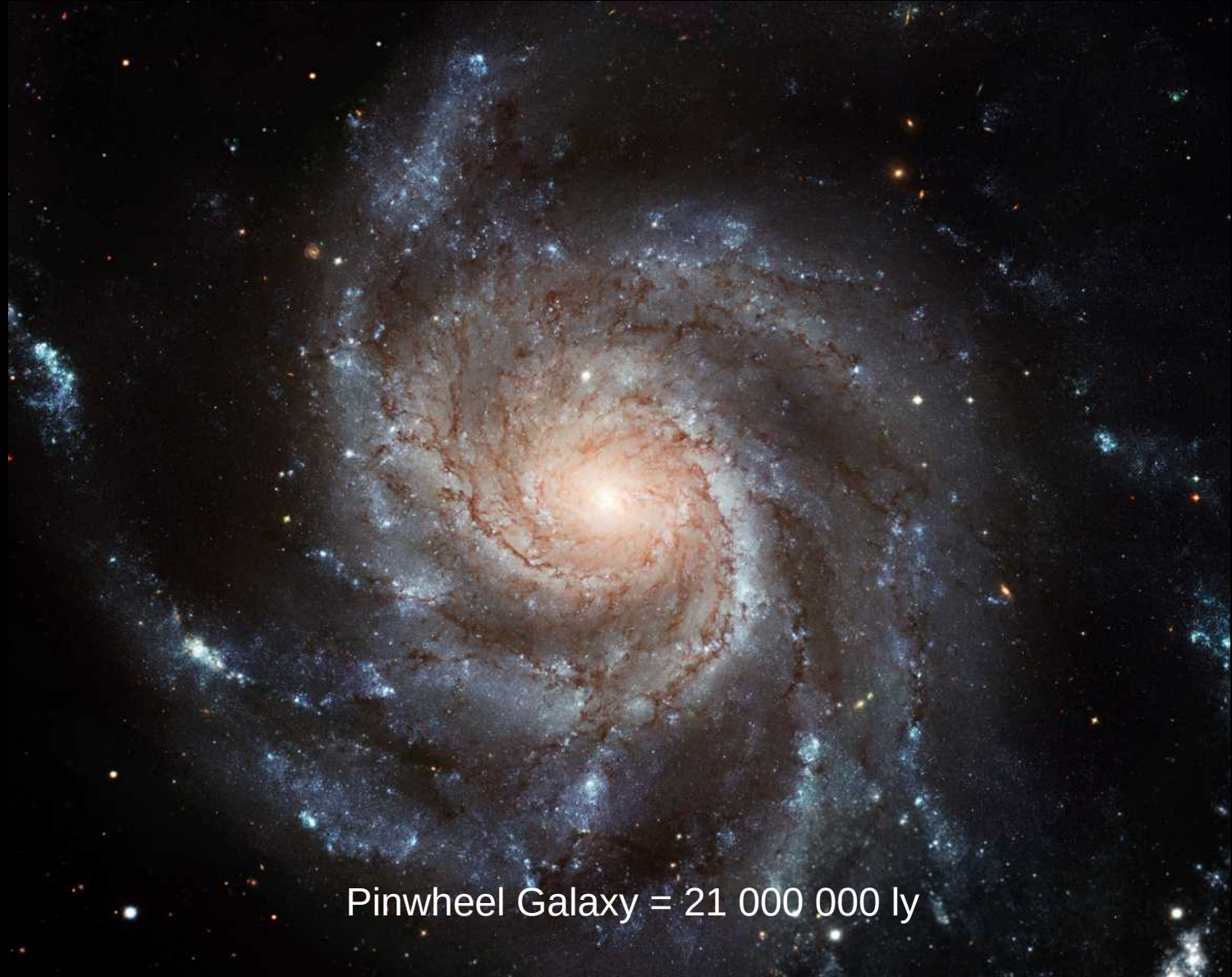
M94 Galaxy = 17 000 000 ly



NGC 6503 Galaxy = 17 000 000 ly



NGC 2841 Galaxy = 20 000 000 ly



Pinwheel Galaxy = 21 000 000 ly



Whirlpool Galaxy = 23 000 000 ly



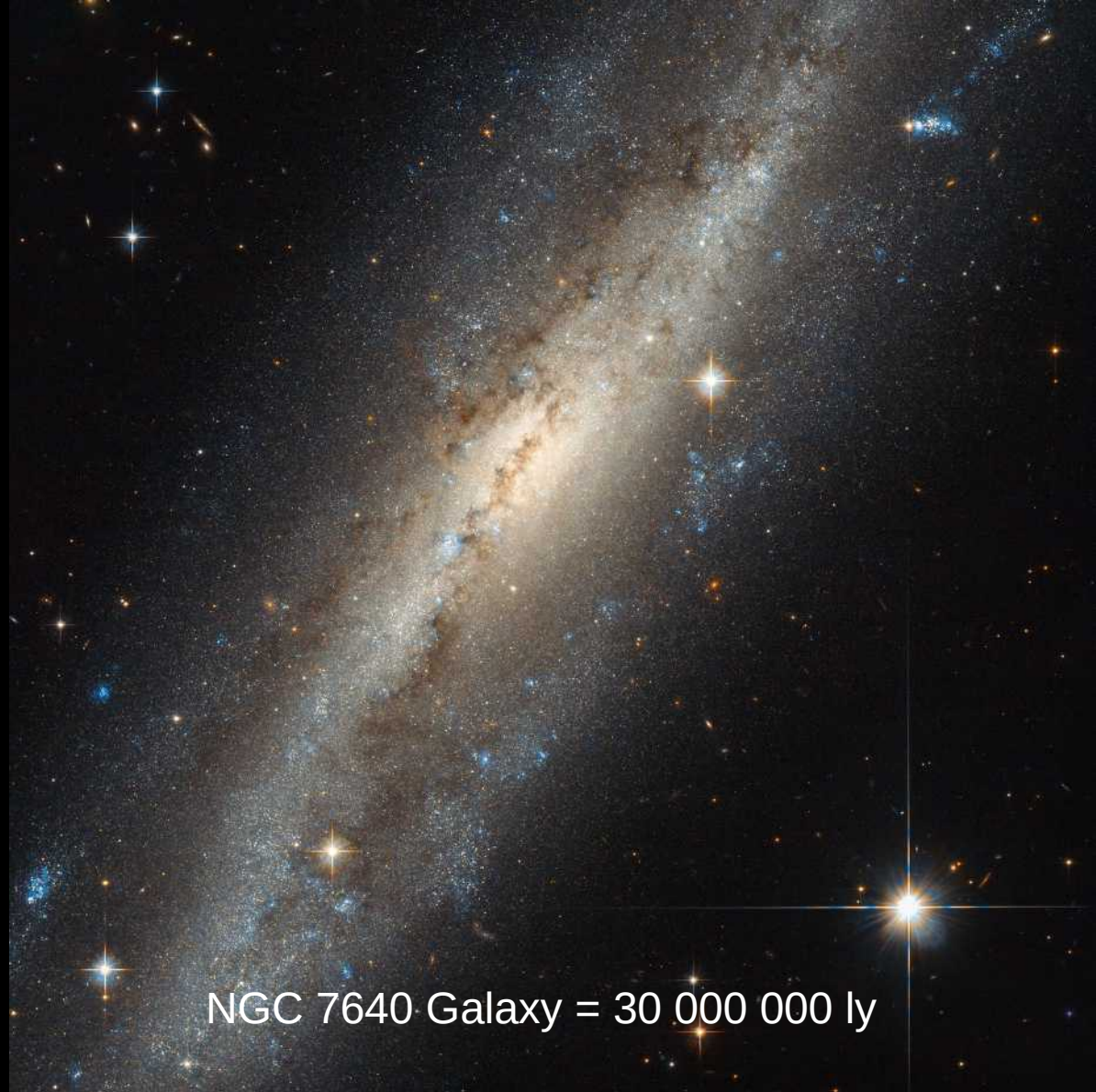
M106 Galaxy = 25 000 000 ly



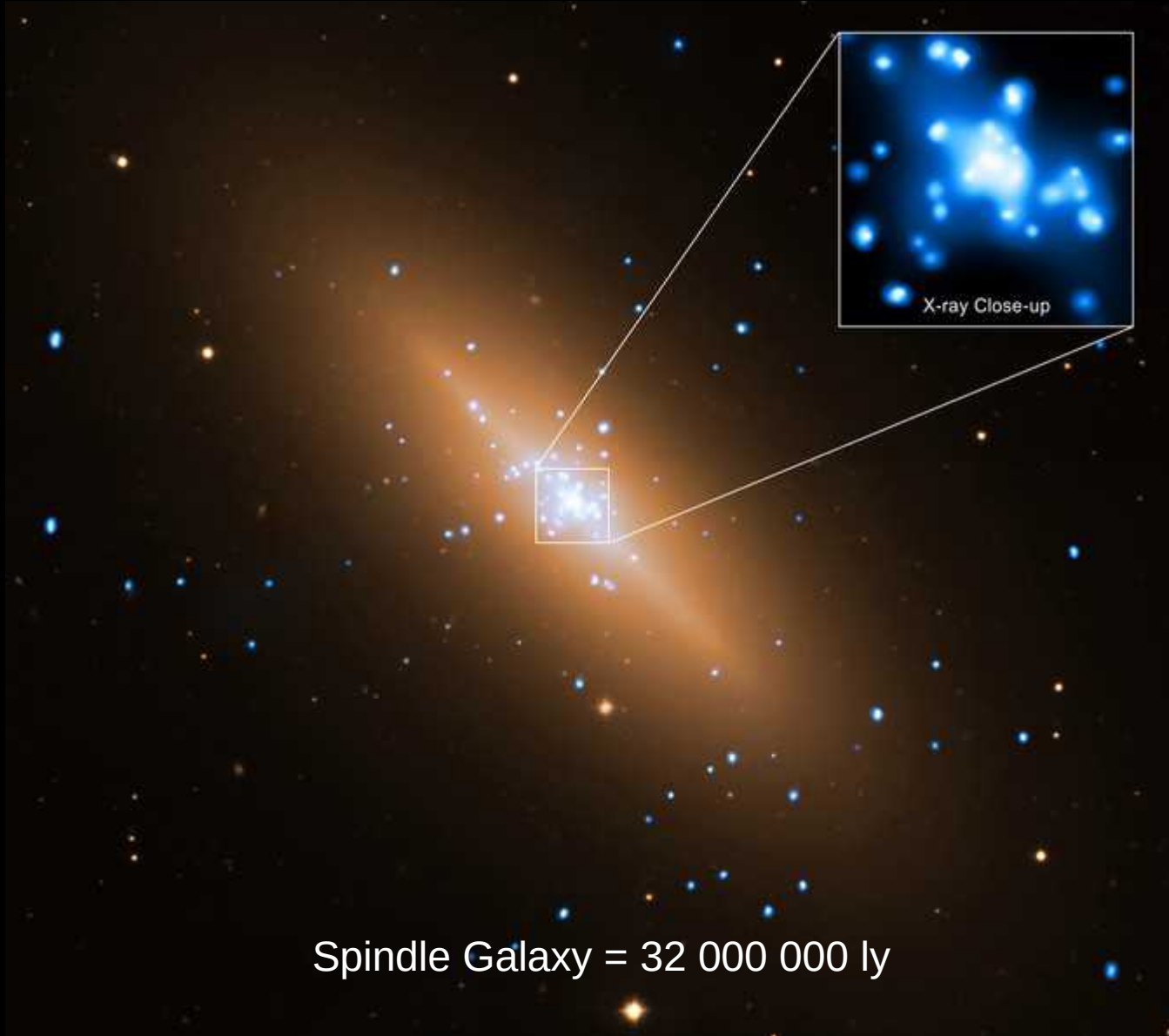
NGC 3521 Galaxy = 26 000 000 ly



Sombrero Galaxy = 29 000 000 ly



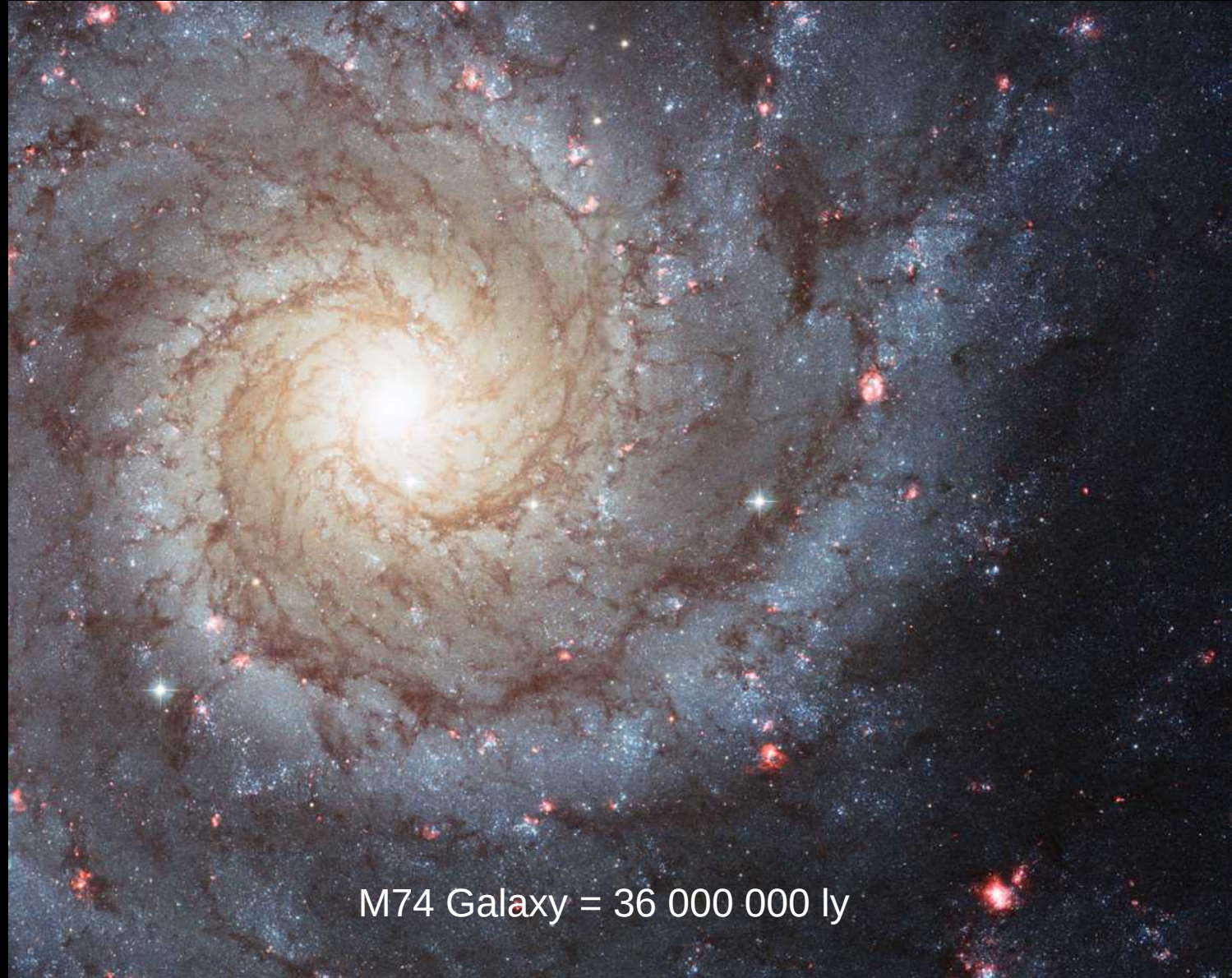
NGC 7640 Galaxy = 30 000 000 ly



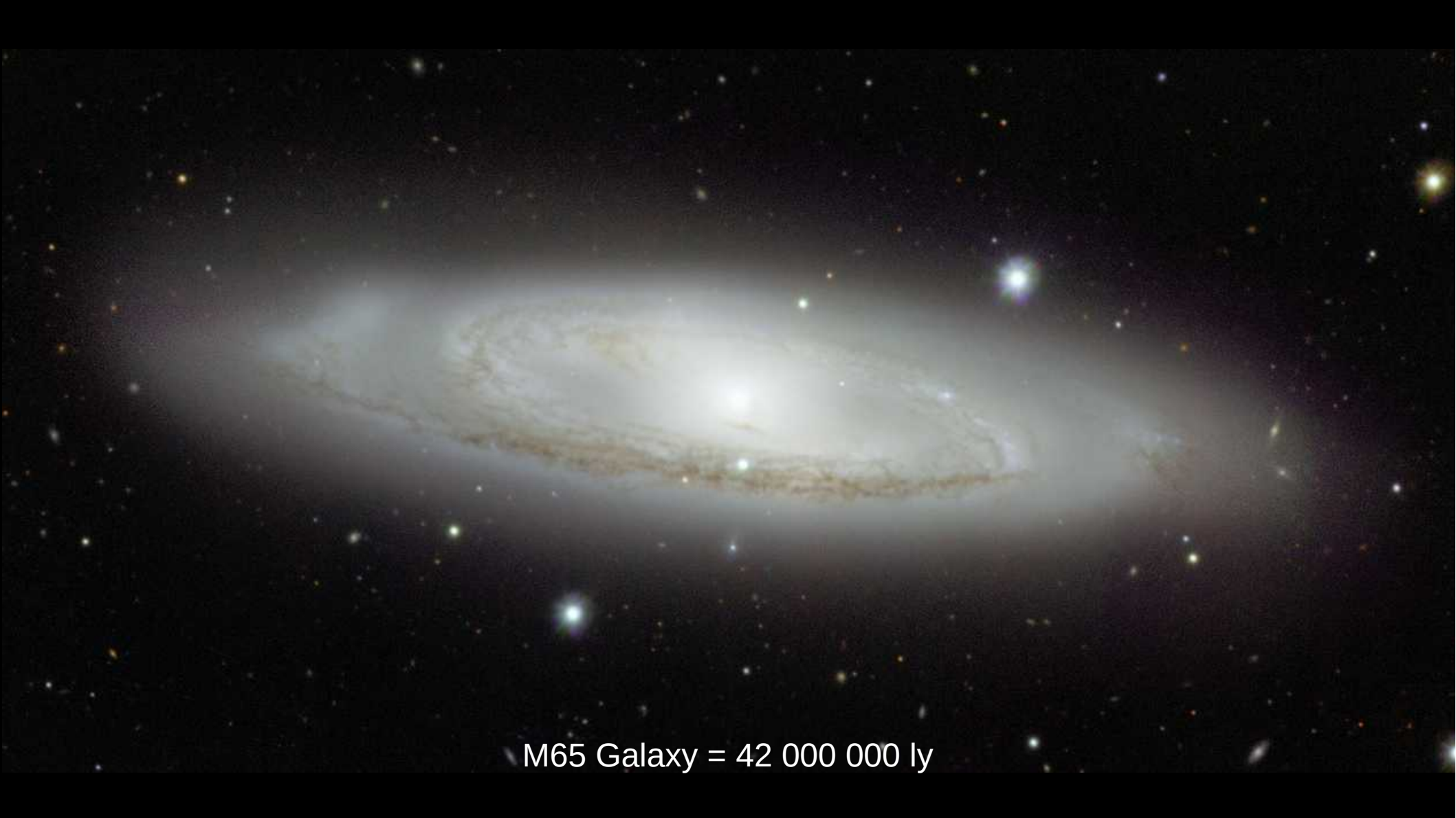
Spindle Galaxy = 32 000 000 ly



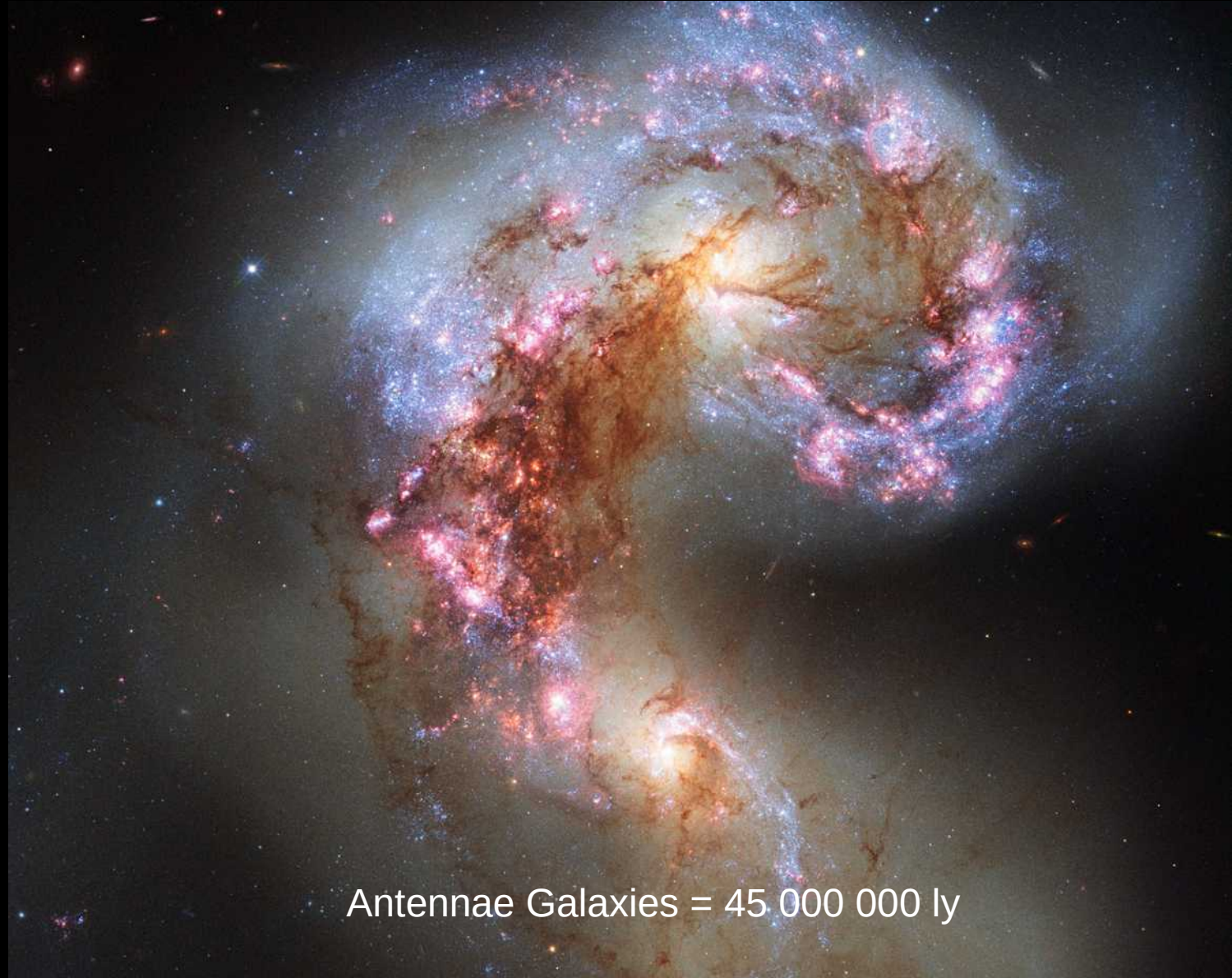
M96 Galaxy = 34 000 000 ly



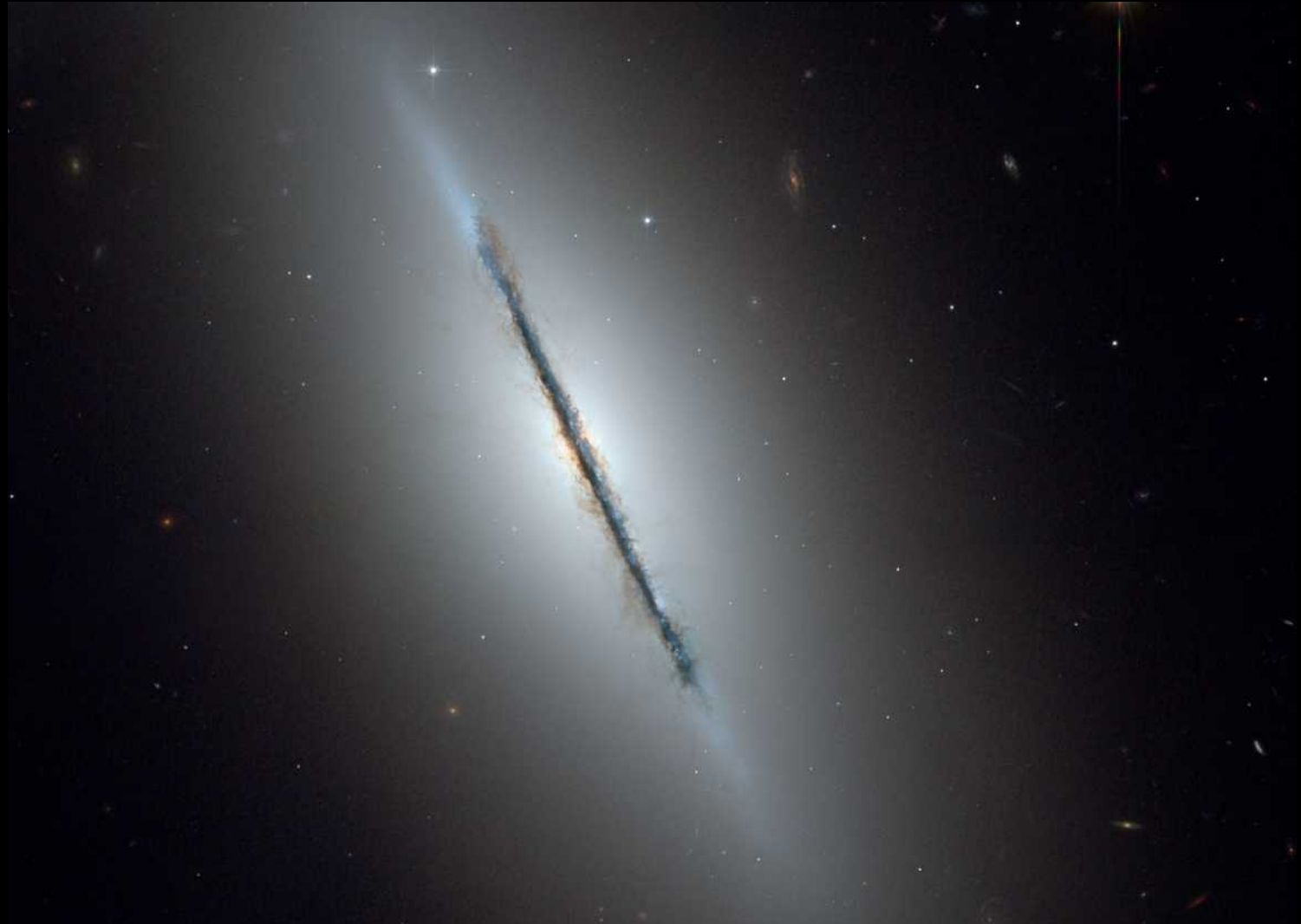
M74 Galaxy = 36 000 000 ly



M65 Galaxy = 42 000 000 ly



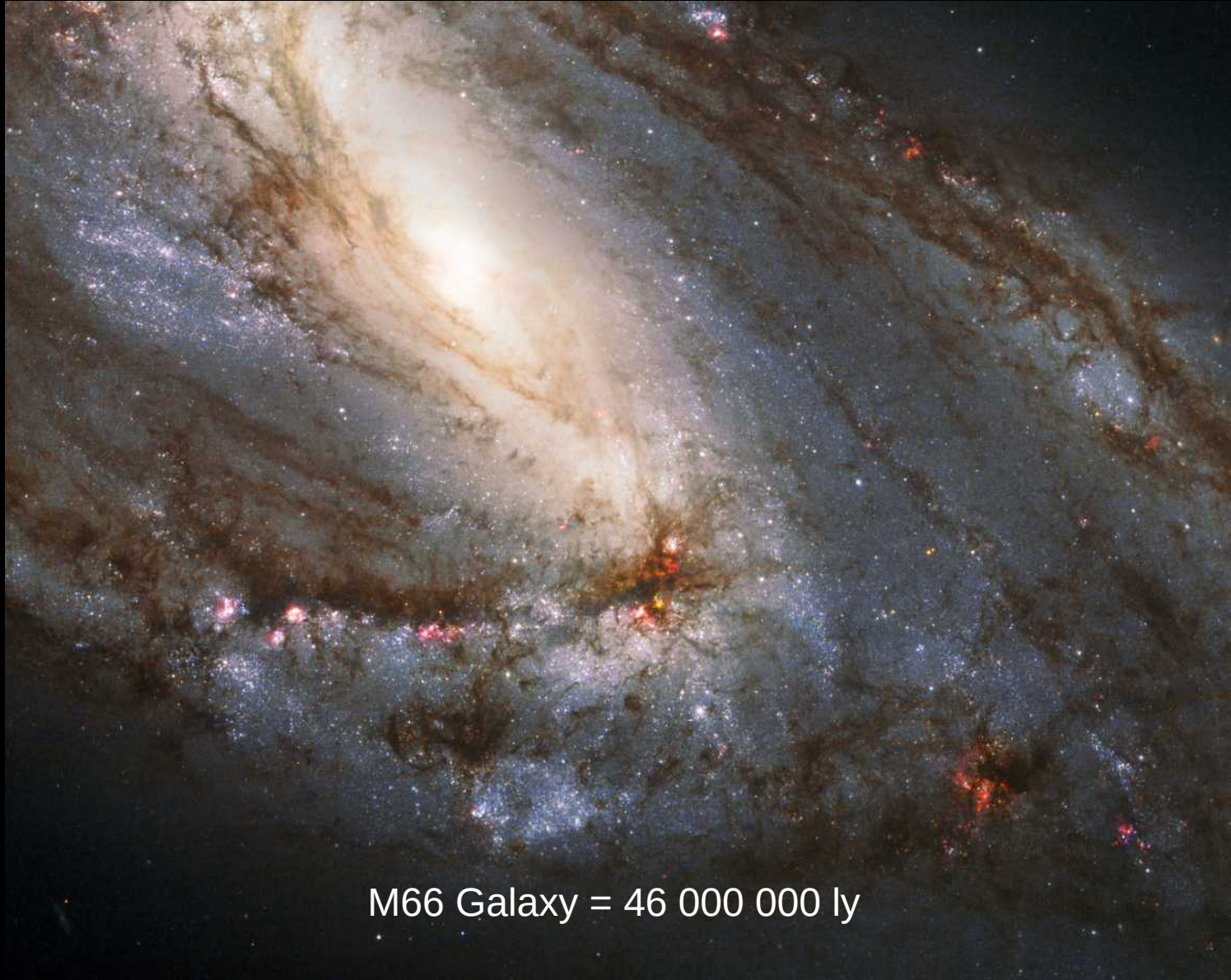
Antennae Galaxies = 45 000 000 ly



NGC 5866 Galaxy = 45 000 000 ly



M66 Galaxy = 46 000 000 ly



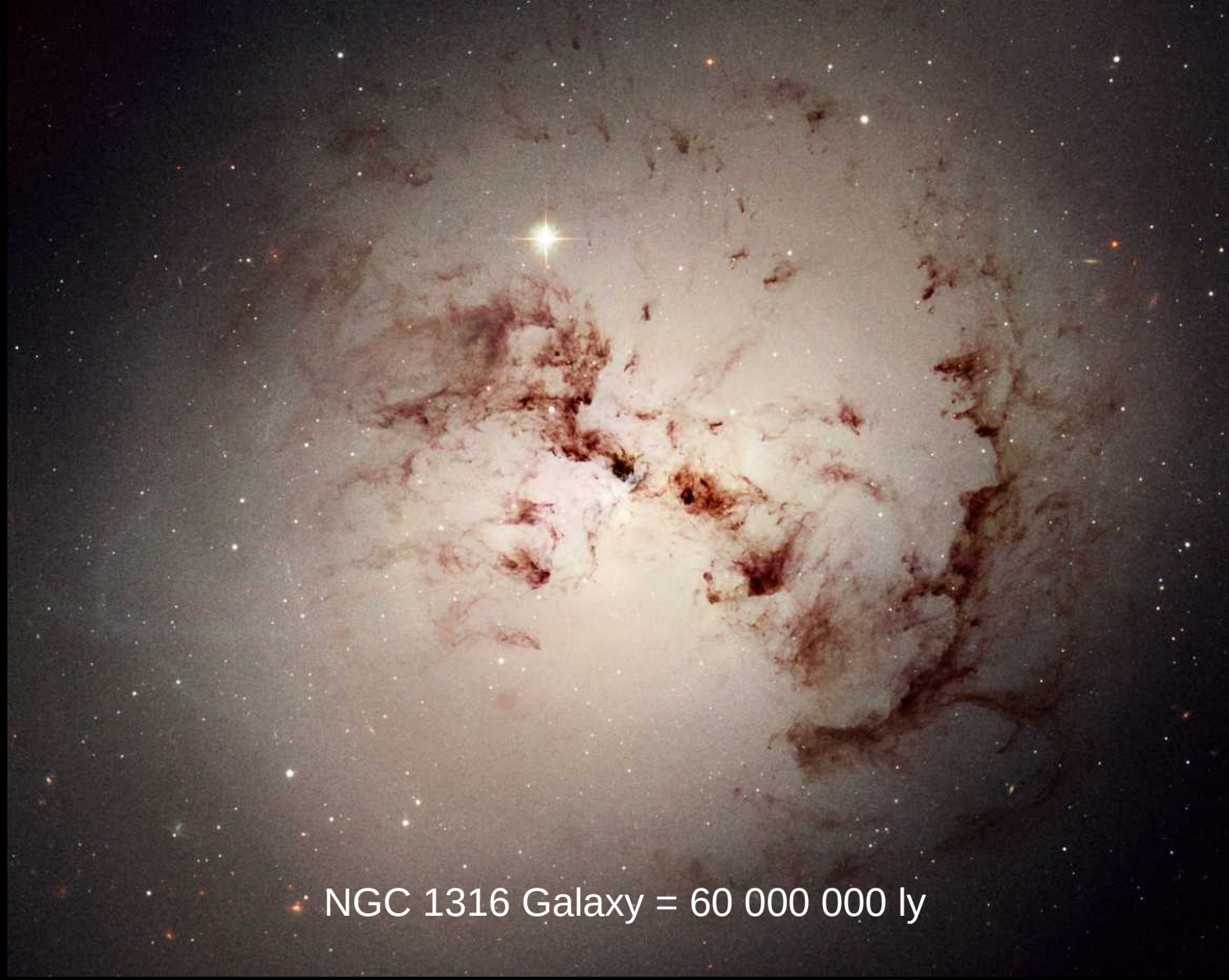
M66 Galaxy = 46 000 000 ly



M77 Galaxy = 47 000 000 ly



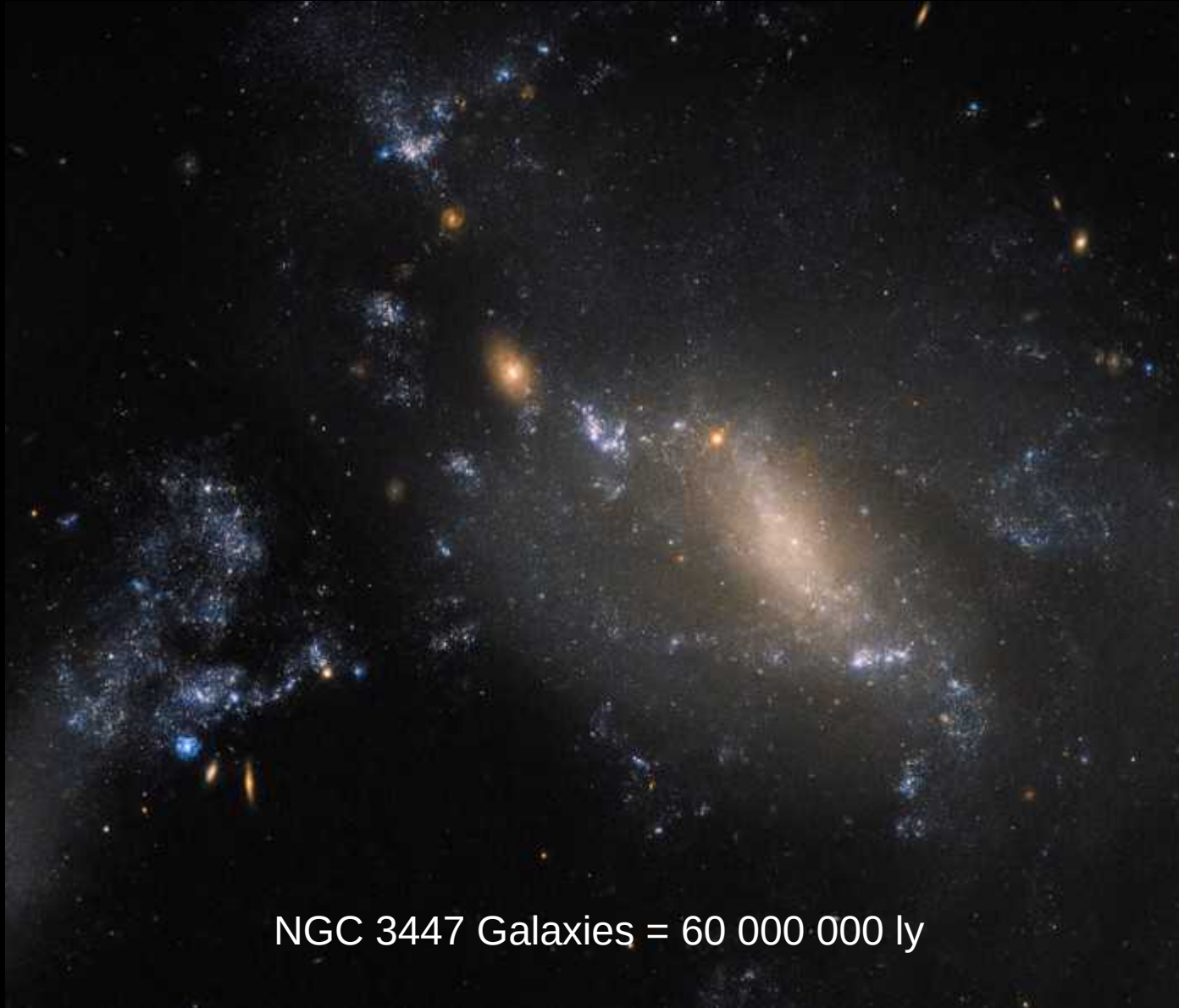
NGC 4526 Galaxy = 55 000 000 ly



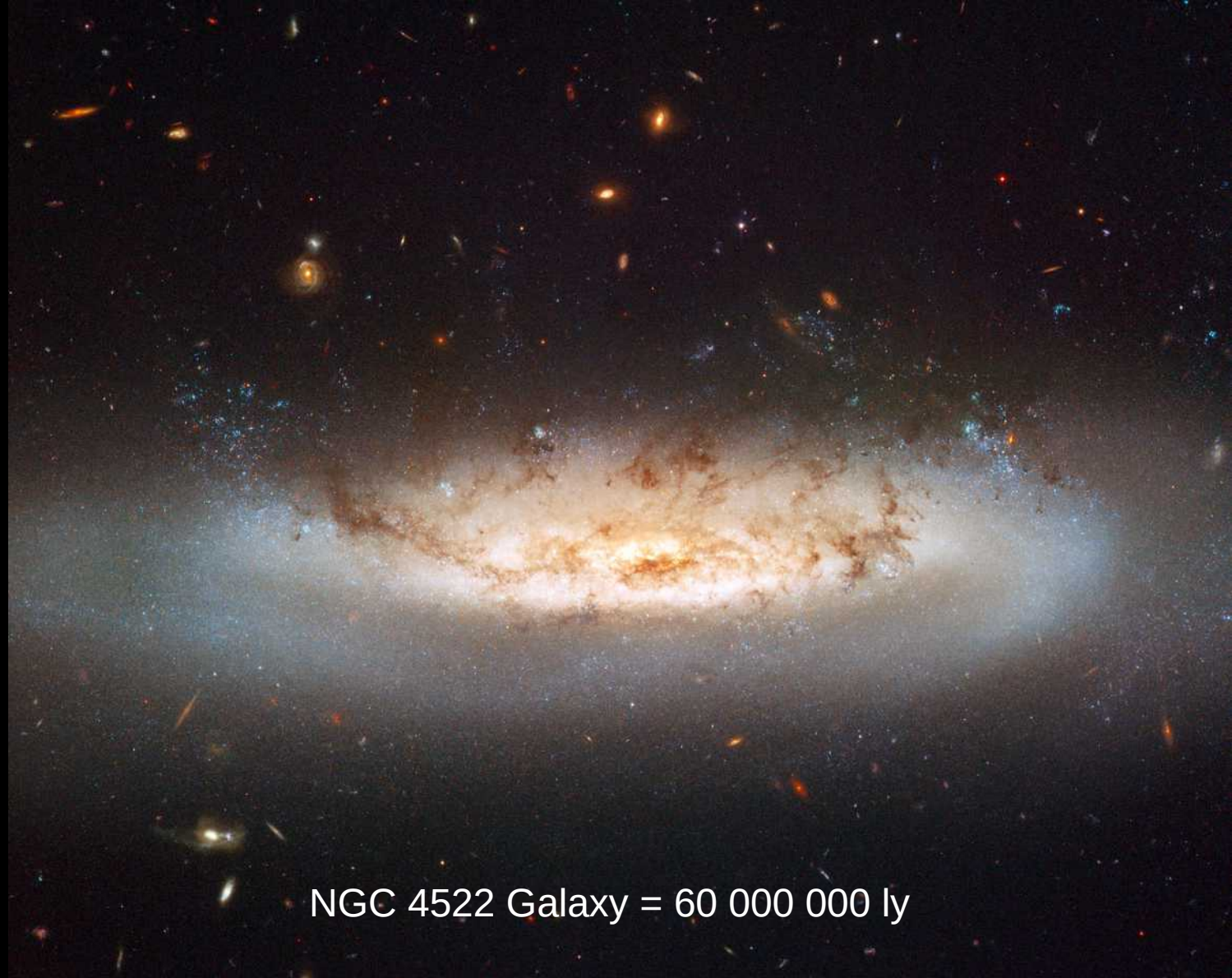
NGC 1316 Galaxy = 60 000 000 ly



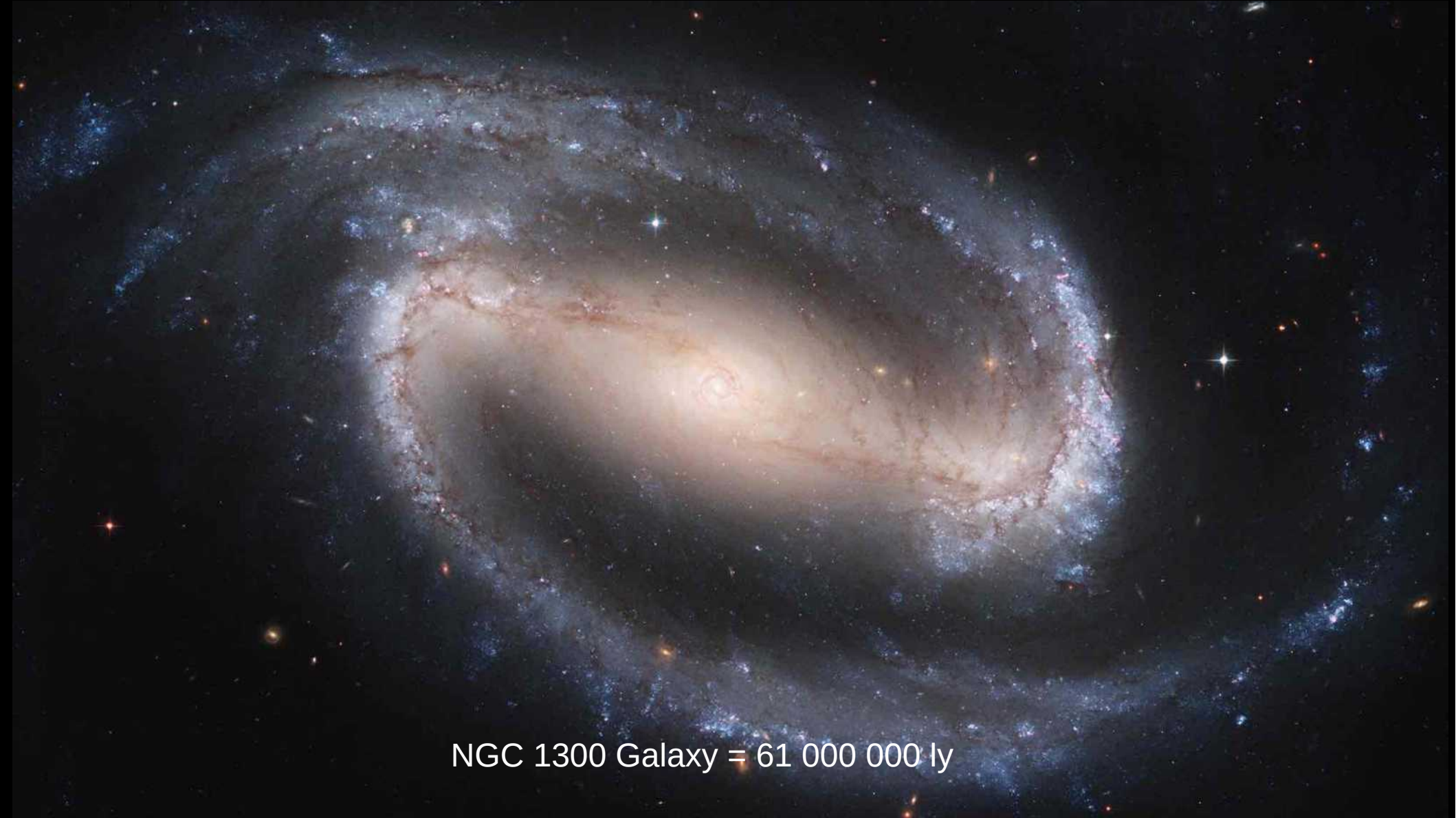
NGC 1672 Galaxy = 60 000 000 ly



NGC 3447 Galaxies = 60 000 000 ly



NGC 4522 Galaxy = 60 000 000 ly



NGC 1300 Galaxy = 61 000 000 ly



NGC 2207 & IC 2163 Galaxies = 85 000 000 ly



NGC 524 Galaxy = 90 000 000 ly



NGC 6217 Galaxy = 90 000 000 ly



NGC 7049 Galaxy = 100 000 000 ly



NGC 7714 Galaxy = 100 000 000 ly



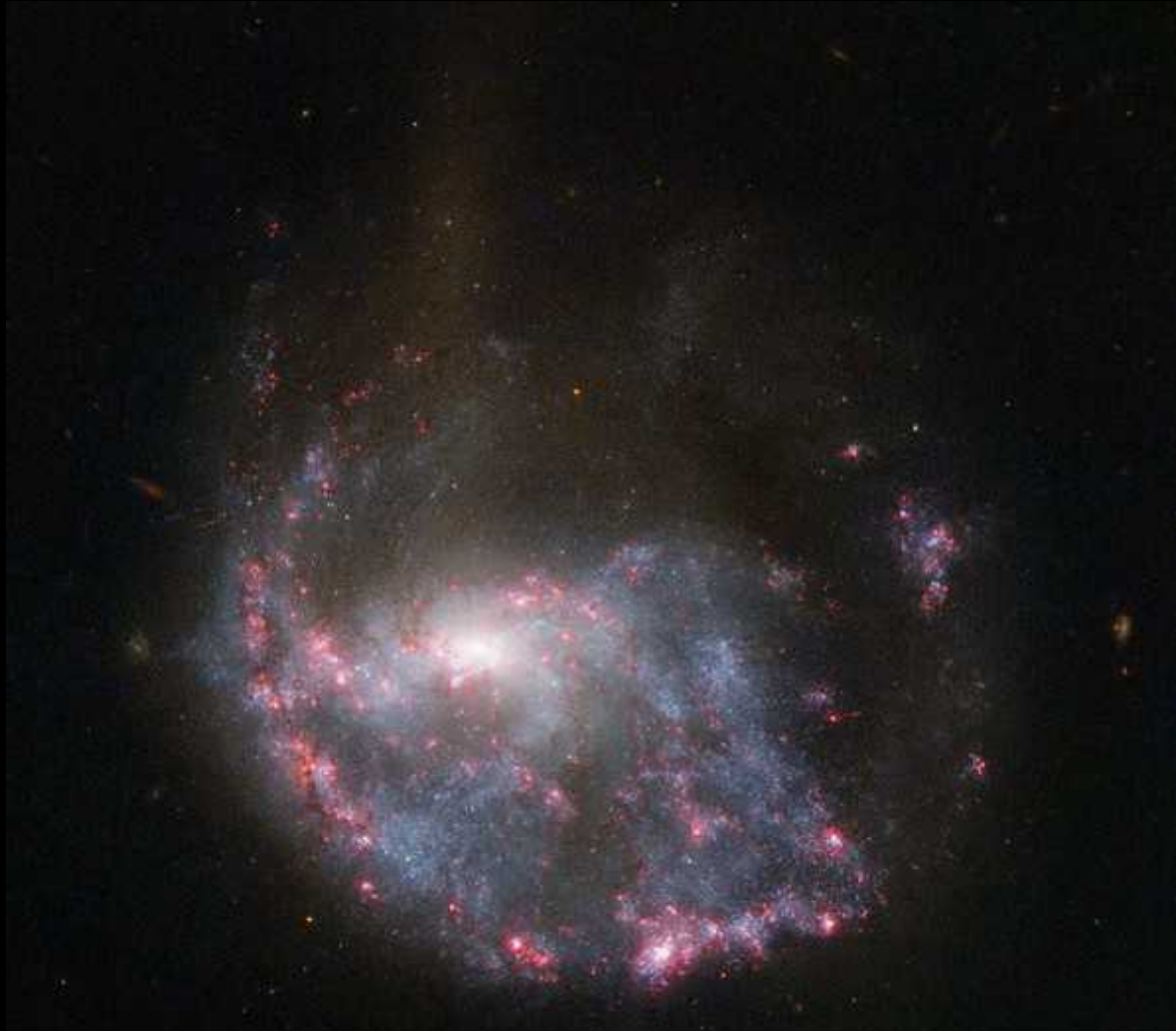
Arp 271 Galaxies = 127 000 000 ly



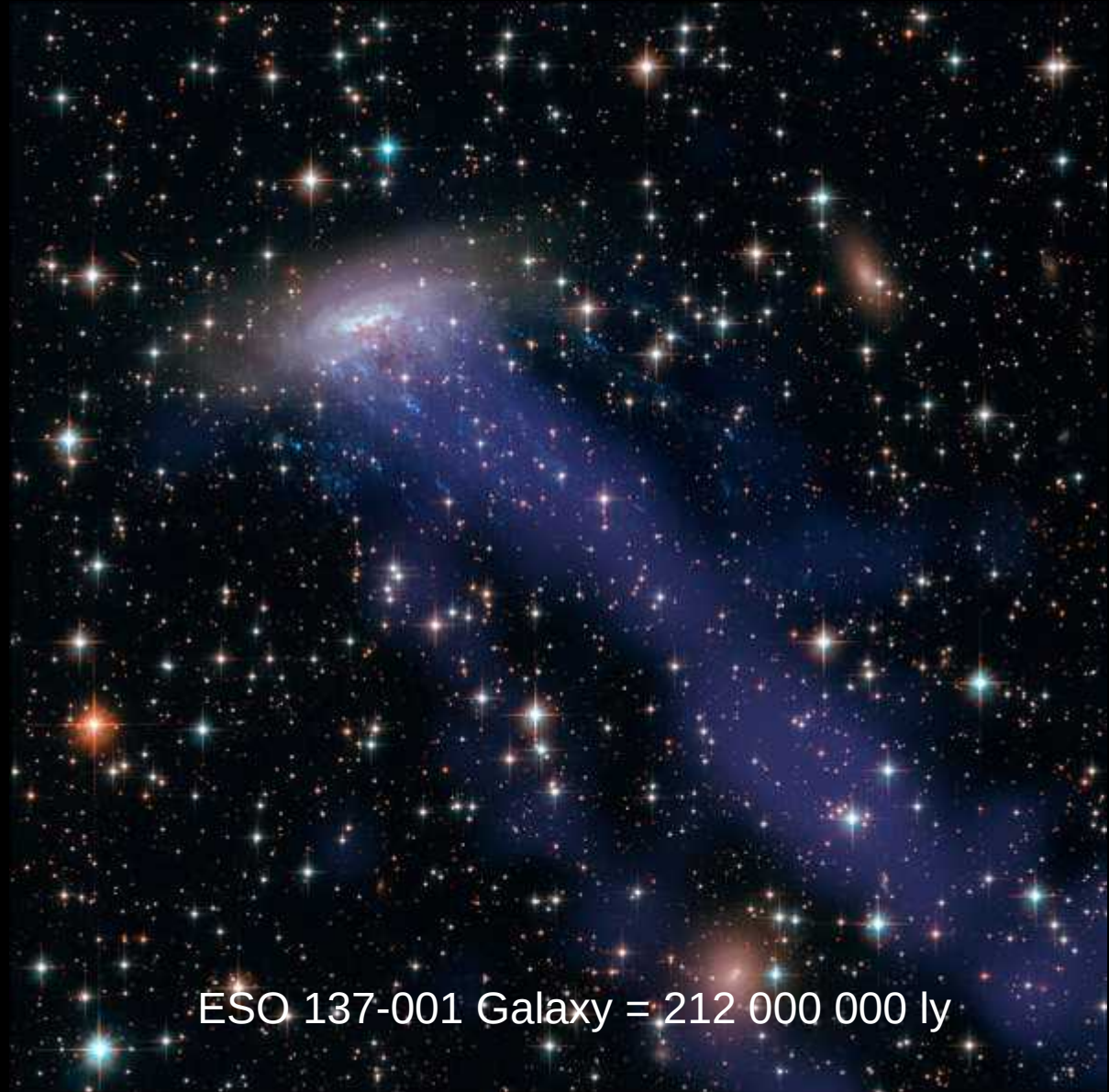
NGC 3314 Galaxies = 117 000 000 ly & 140 000 000 ly



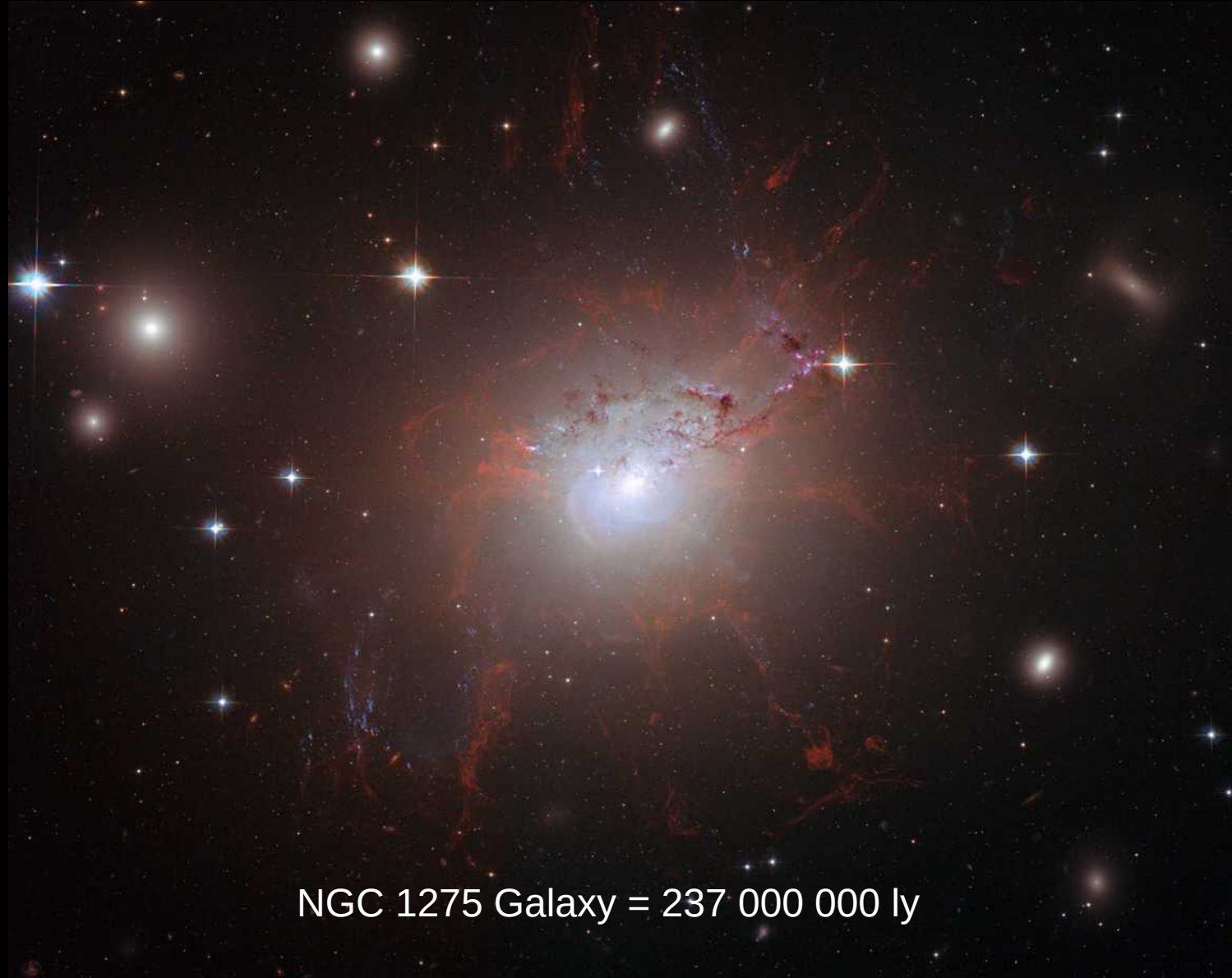
ESO 510-G13 Galaxy = 150 000 000 ly



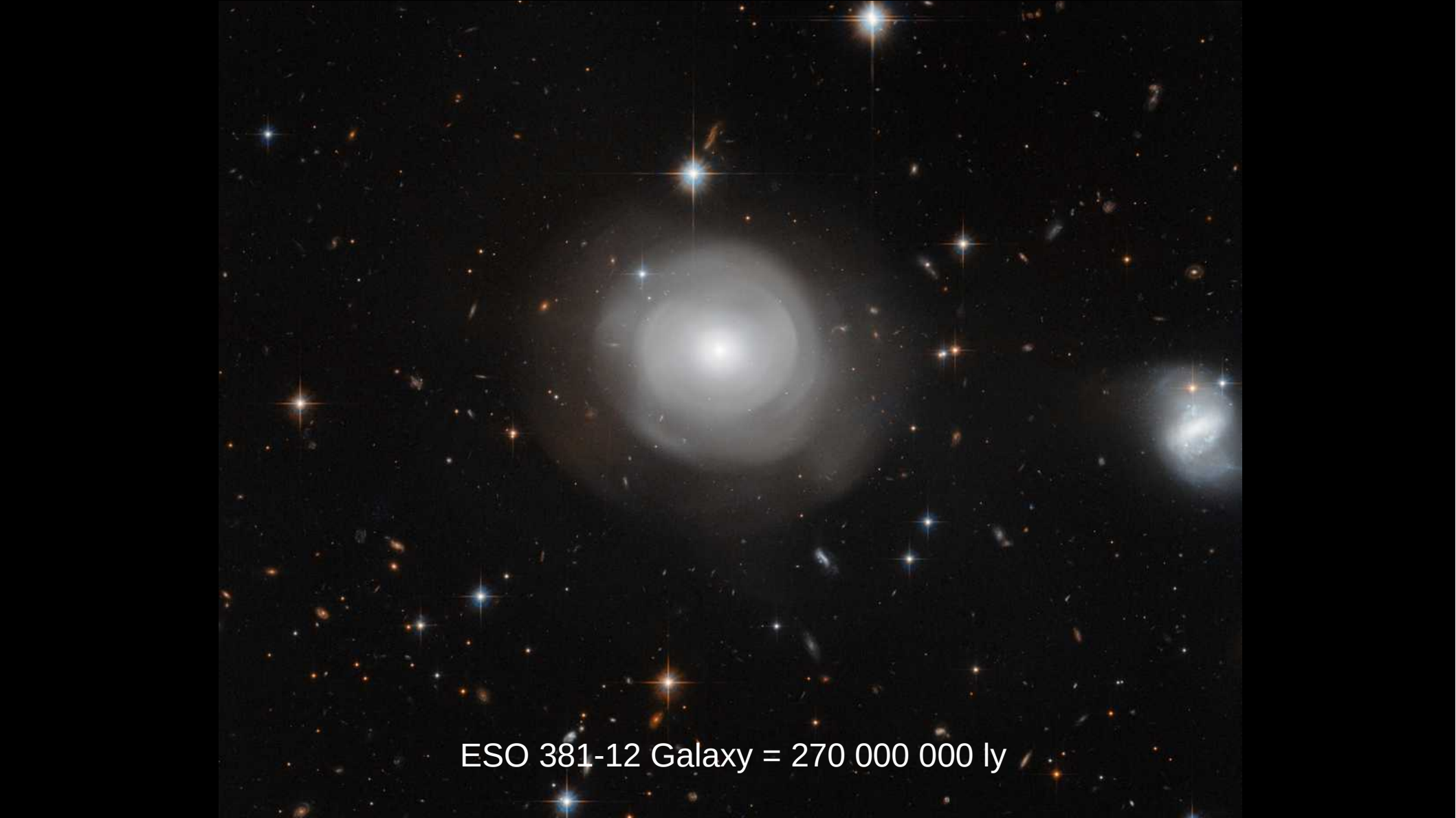
NGC 922 Galaxy = 150 000 000 ly



ESO 137-001 Galaxy = 212 000 000 ly



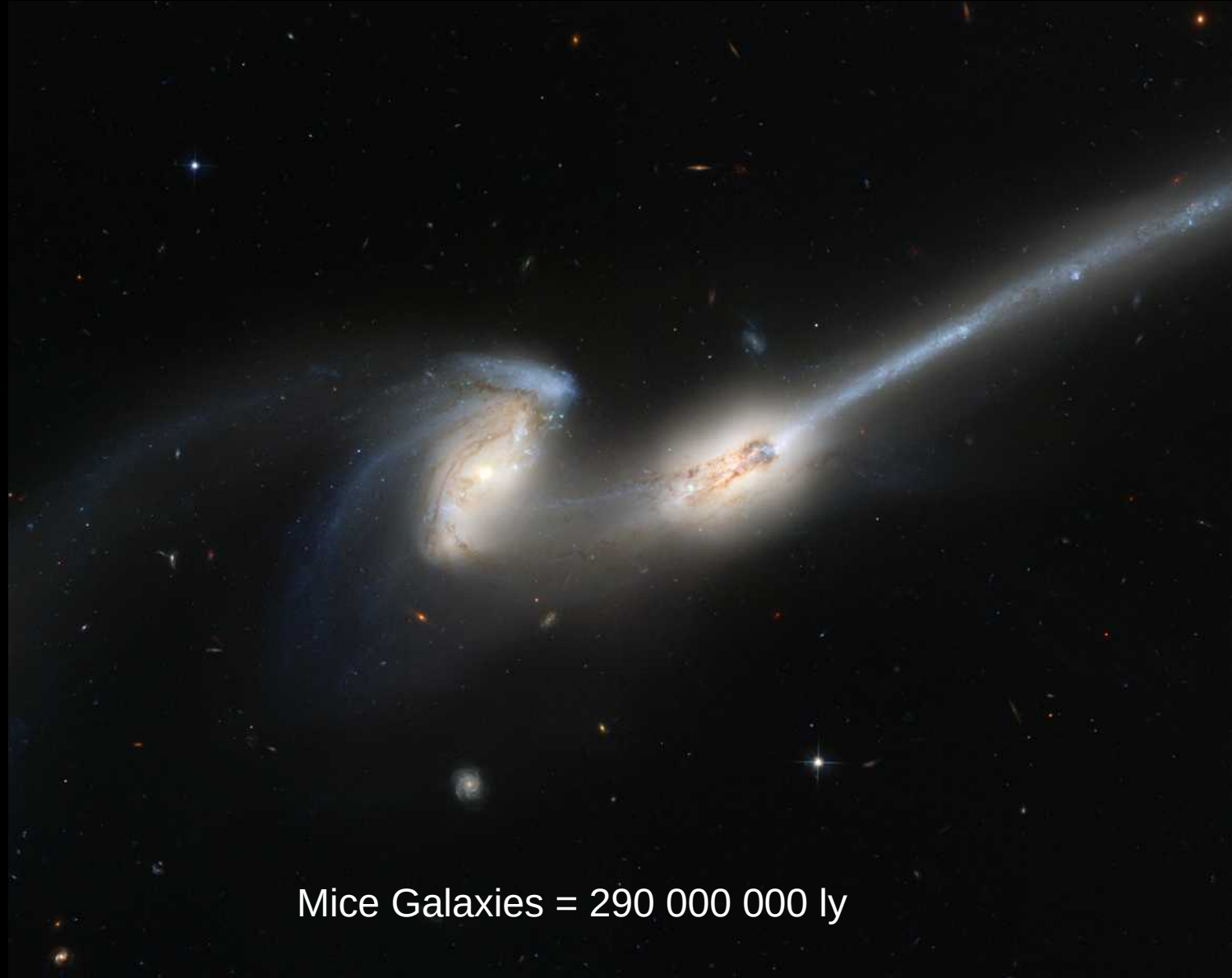
NGC 1275 Galaxy = 237 000 000 ly



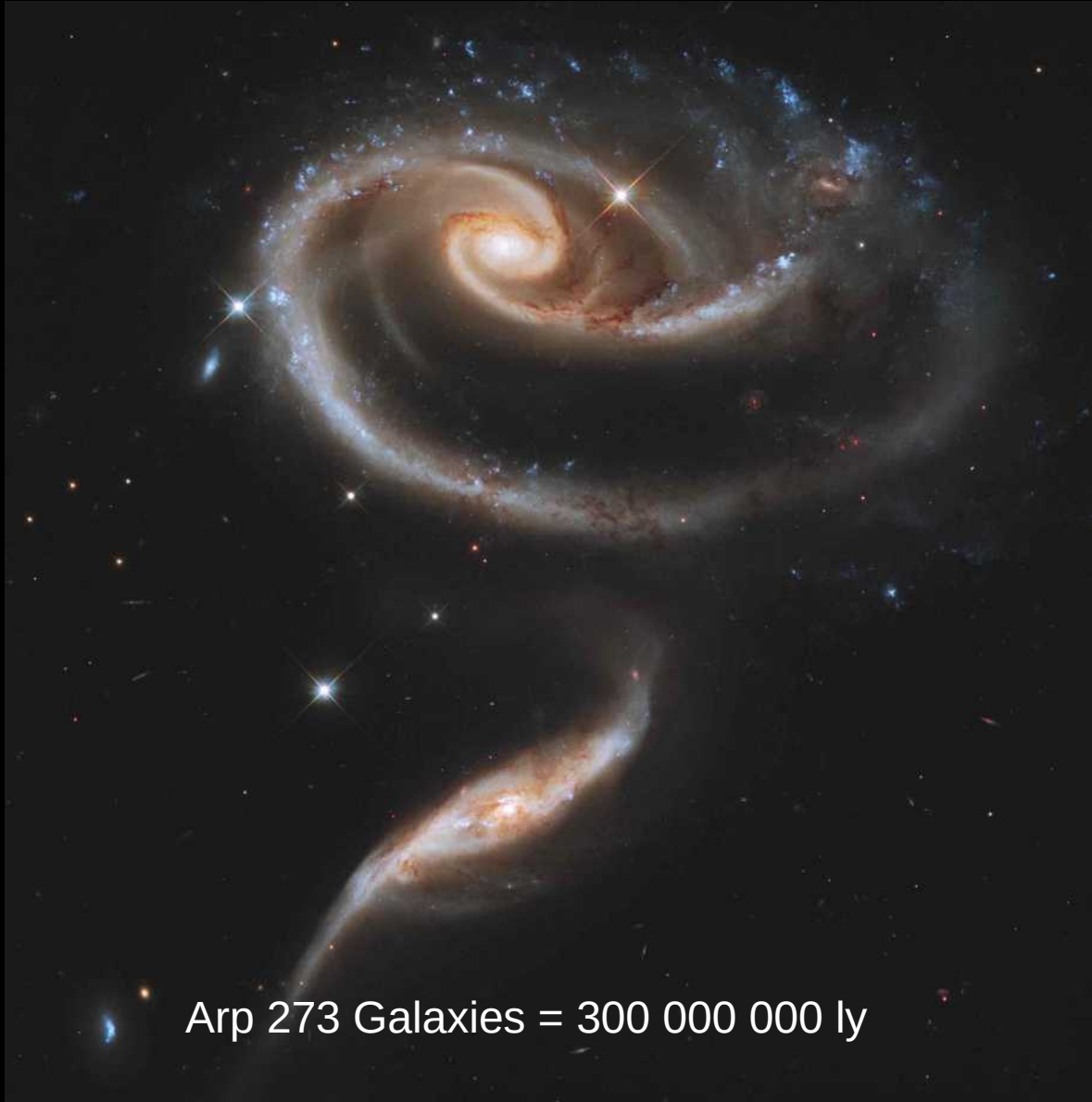
ESO 381-12 Galaxy = 270 000 000 ly



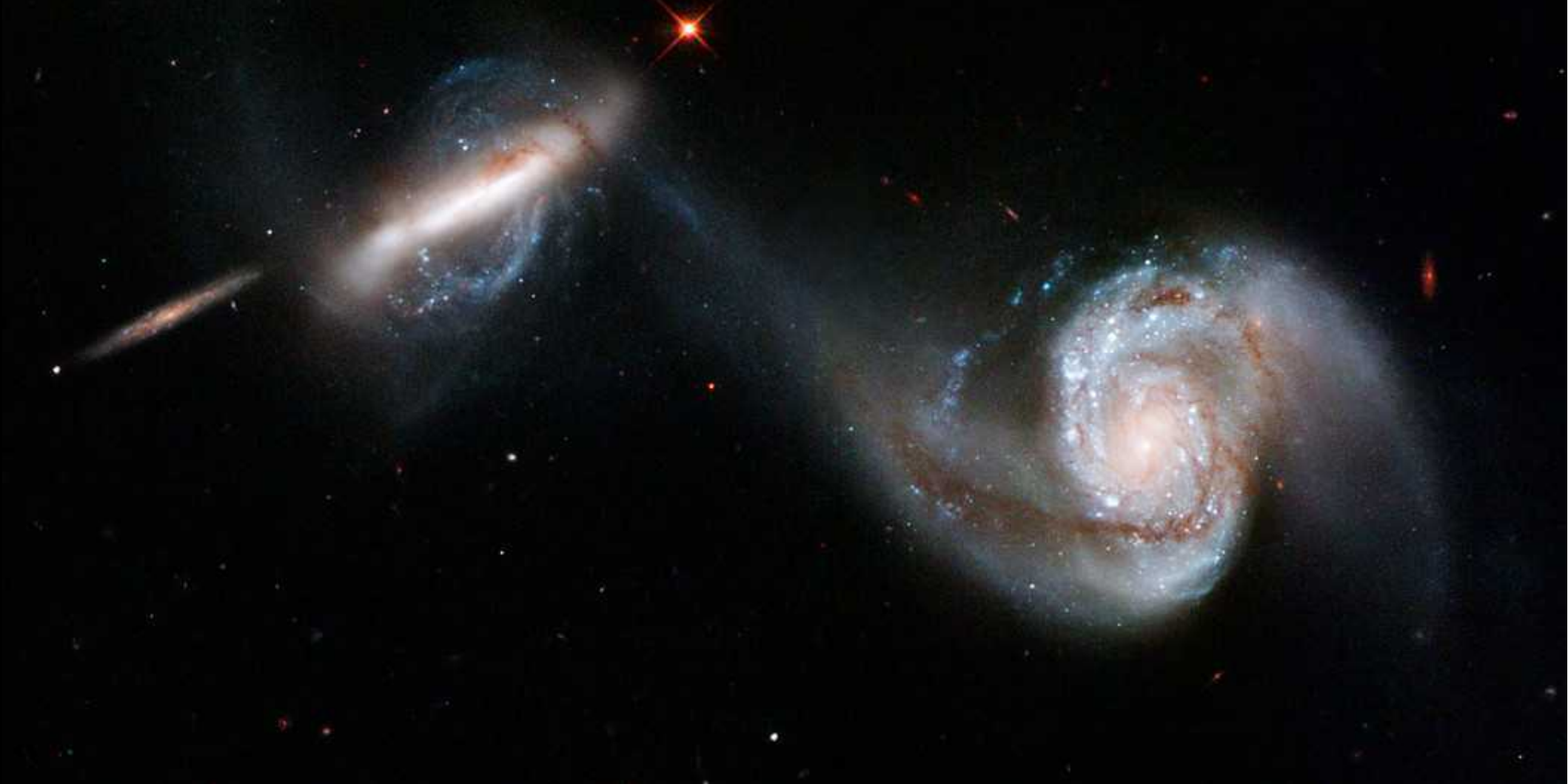
Stephan's Quintet Galaxies = 270 000 000 ly



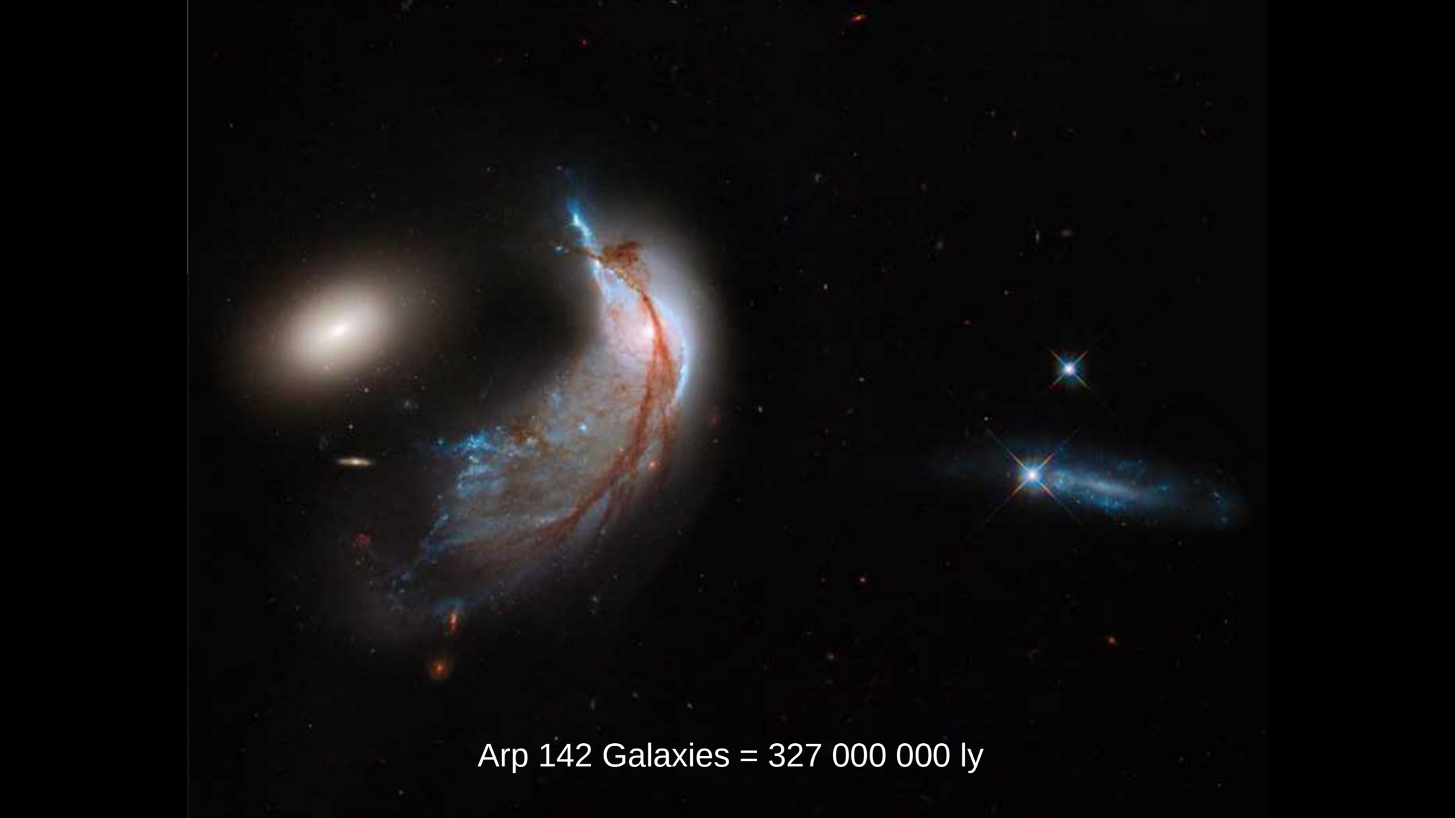
Mice Galaxies = 290 000 000 ly



Arp 273 Galaxies = 300 000 000 ly



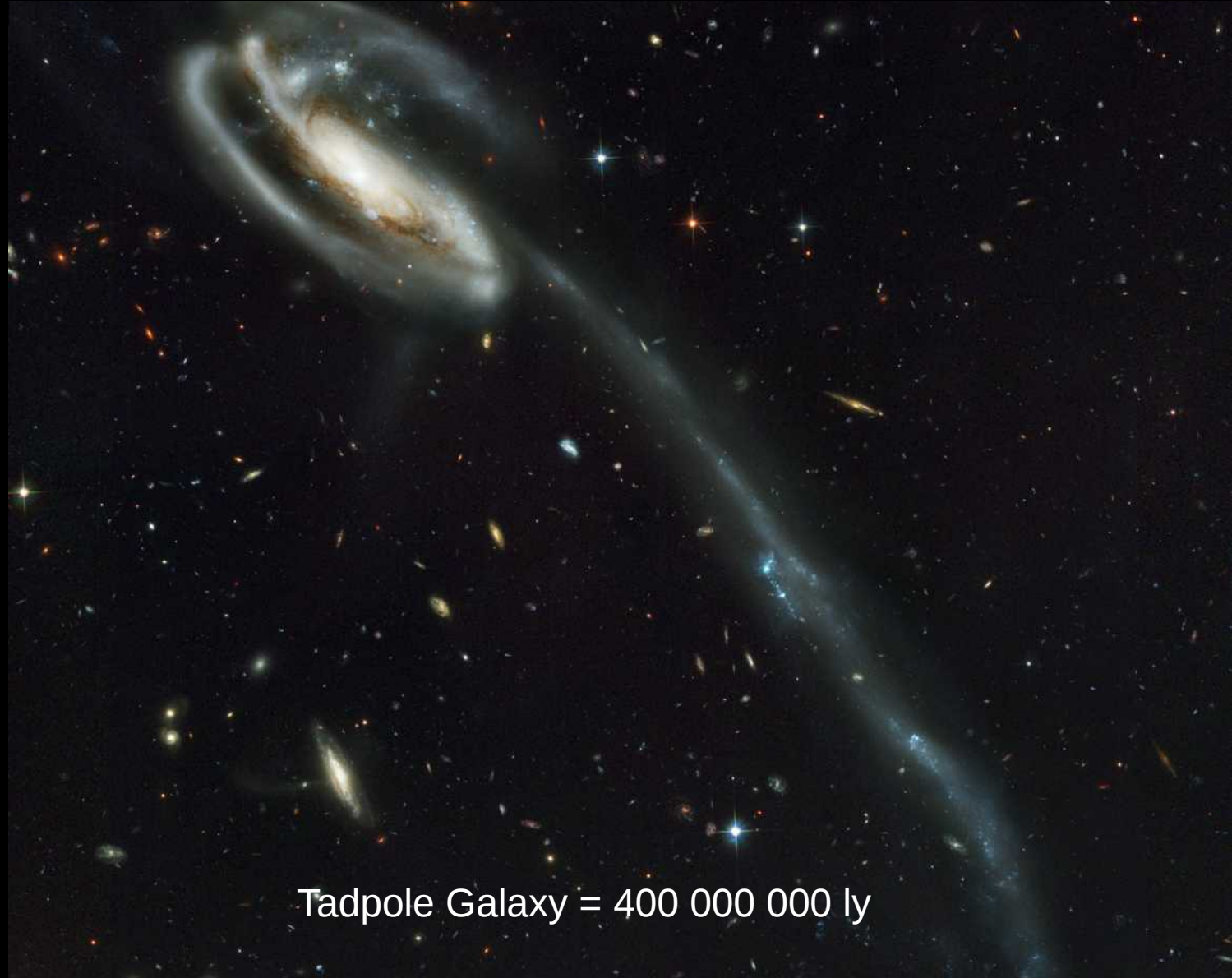
Arp 87 Galaxies = 300 000 000 ly



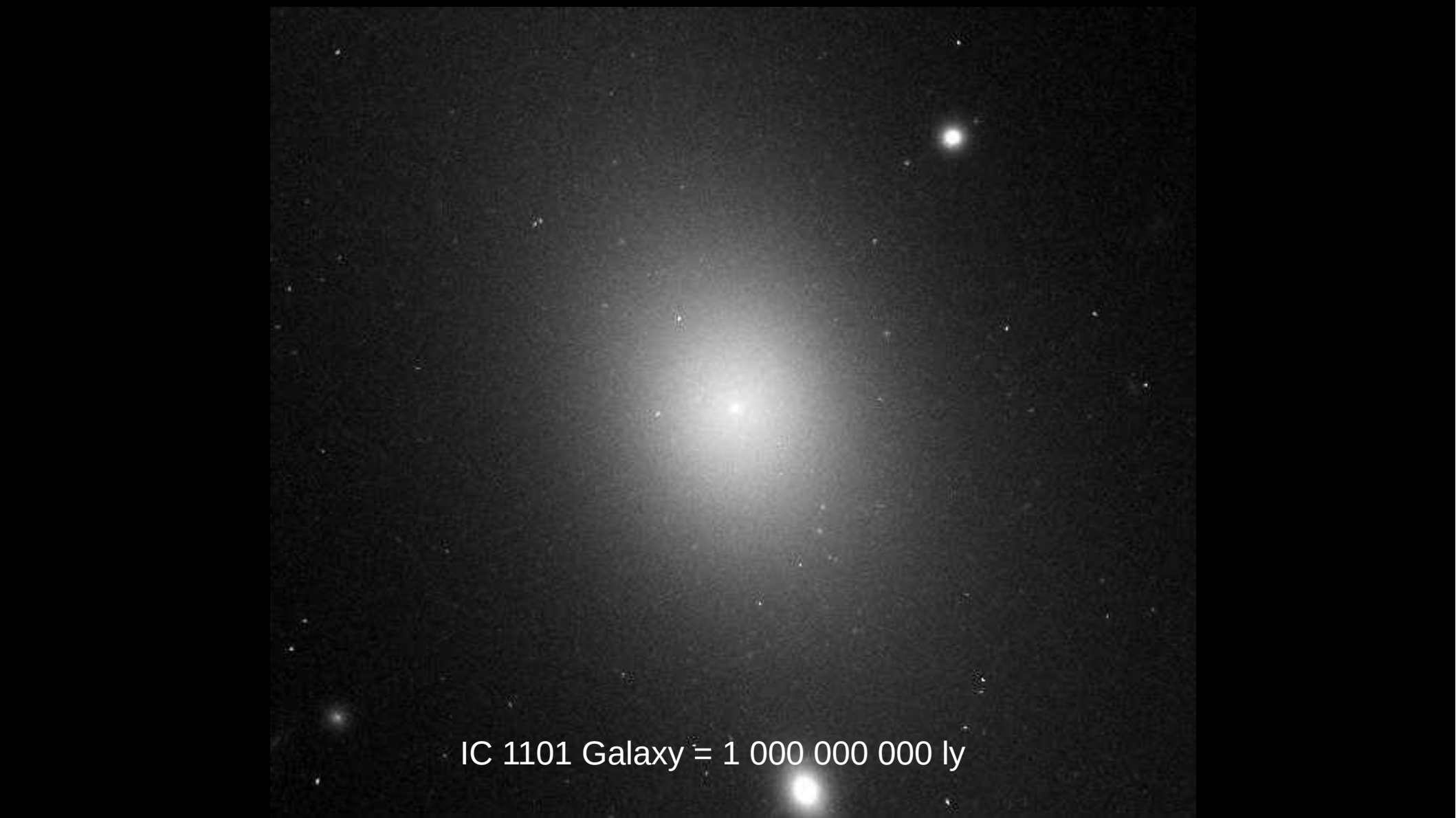
Arp 142 Galaxies = 327 000 000 ly



UGC 12591 Galaxy = 400 000 000 ly



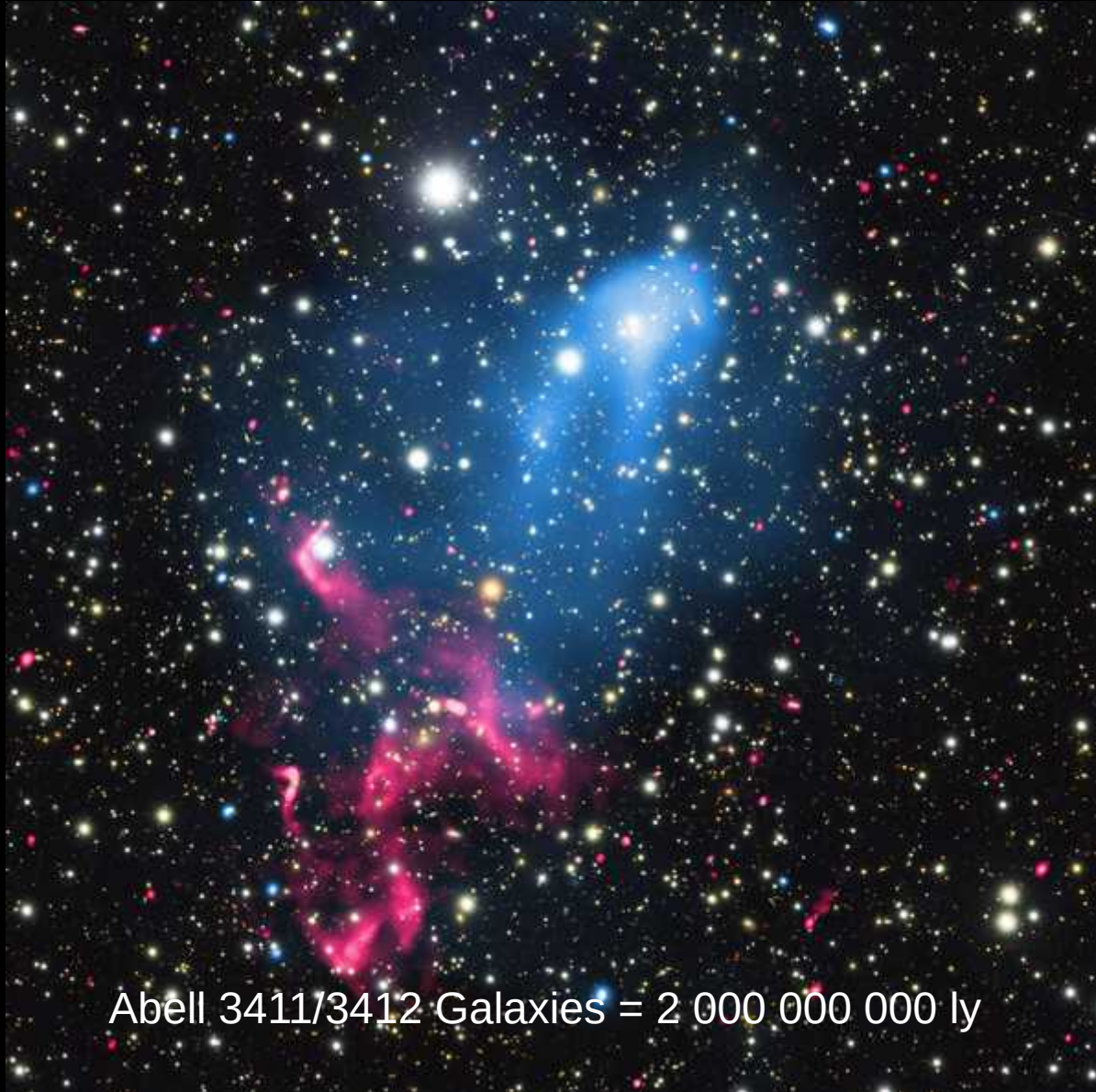
Tadpole Galaxy = 400 000 000 ly



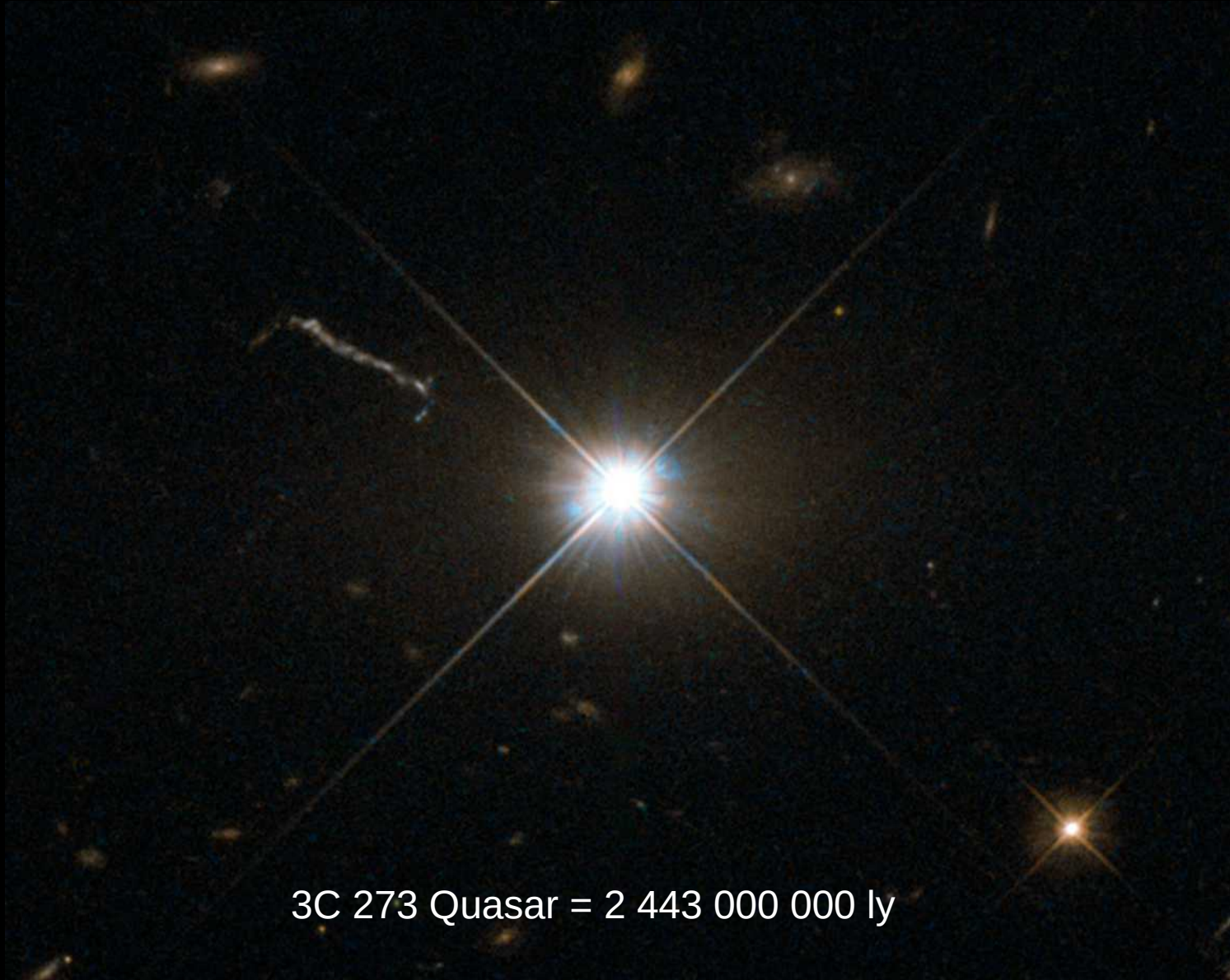
IC 1101 Galaxy = 1 000 000 000 ly

A vibrant, multi-colored image of the Abell 520 Galaxy Cluster. The background is a dark, deep blue space filled with a dense field of stars and galaxies. The stars are scattered throughout, with some appearing as bright, multi-pointed white and yellow stars, and others as smaller, fainter points of light in various colors like orange, red, and blue. The galaxies are more prominent, appearing as elongated, glowing structures in shades of blue, green, and orange, some with distinct spiral or elliptical shapes. The overall effect is a rich, multi-colored stellar and galactic population.

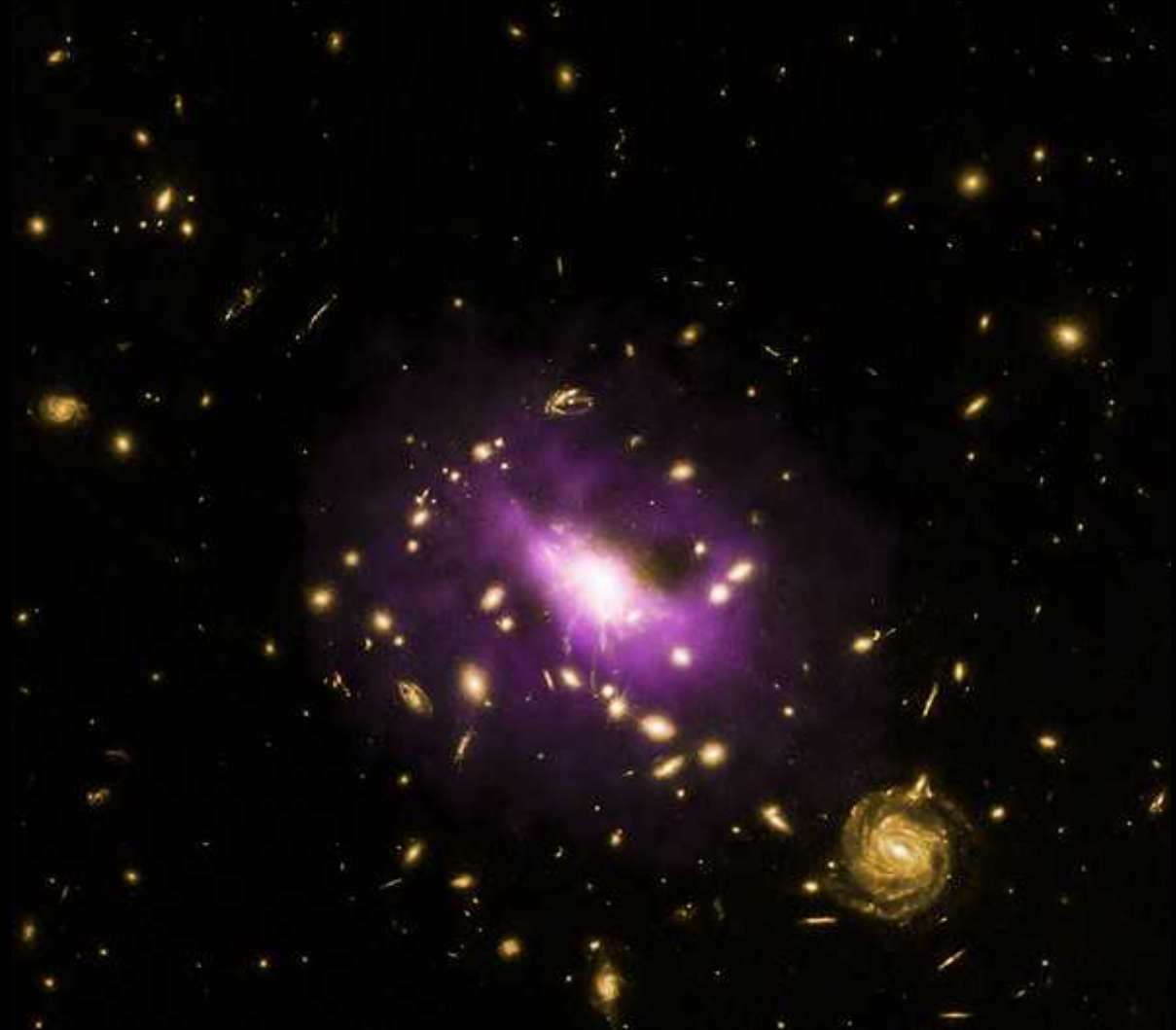
Abell 520 Galaxy Cluster = 2 000 000 000 ly



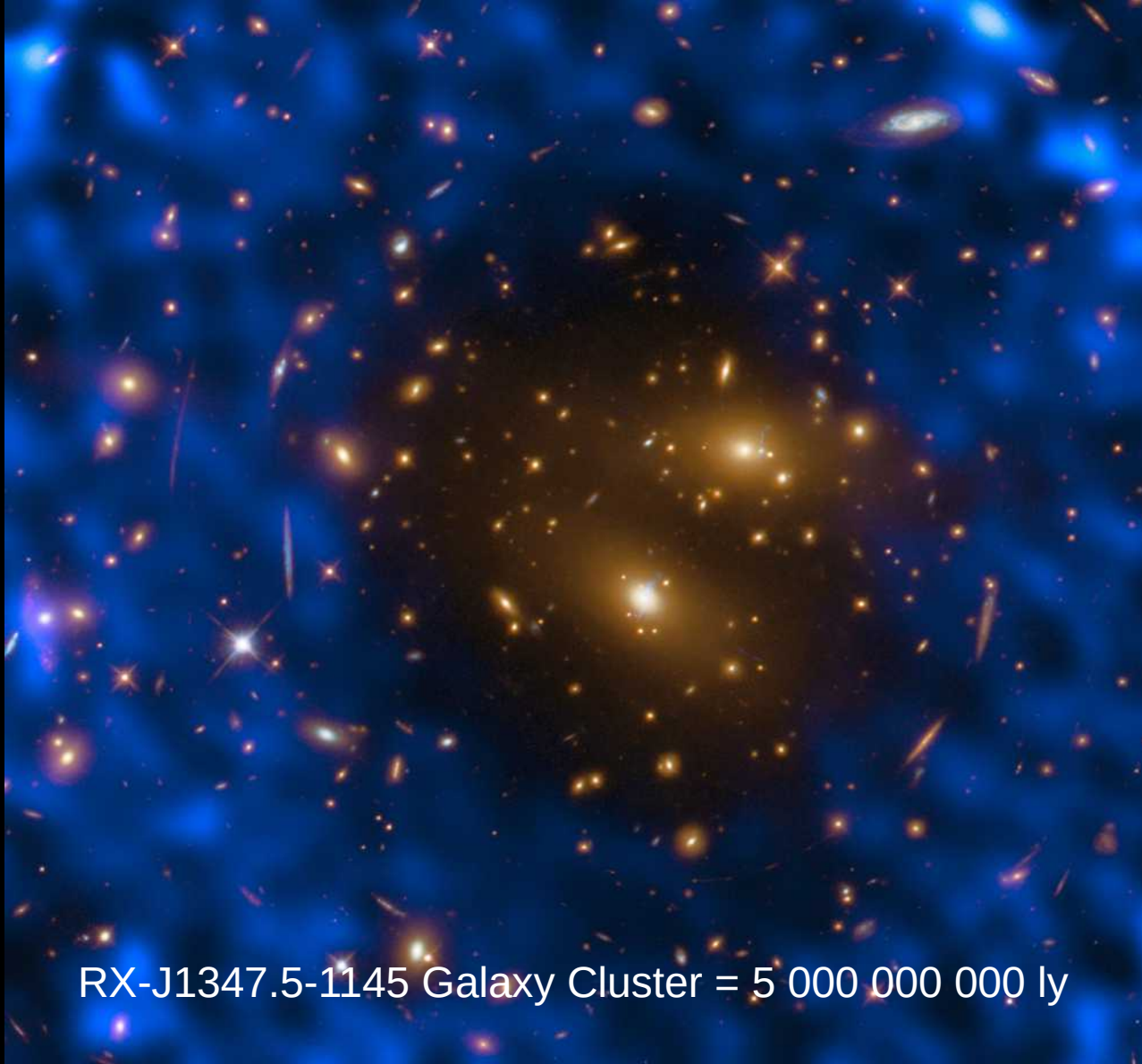
Abell 3411/3412 Galaxies = 2 000 000 000 ly



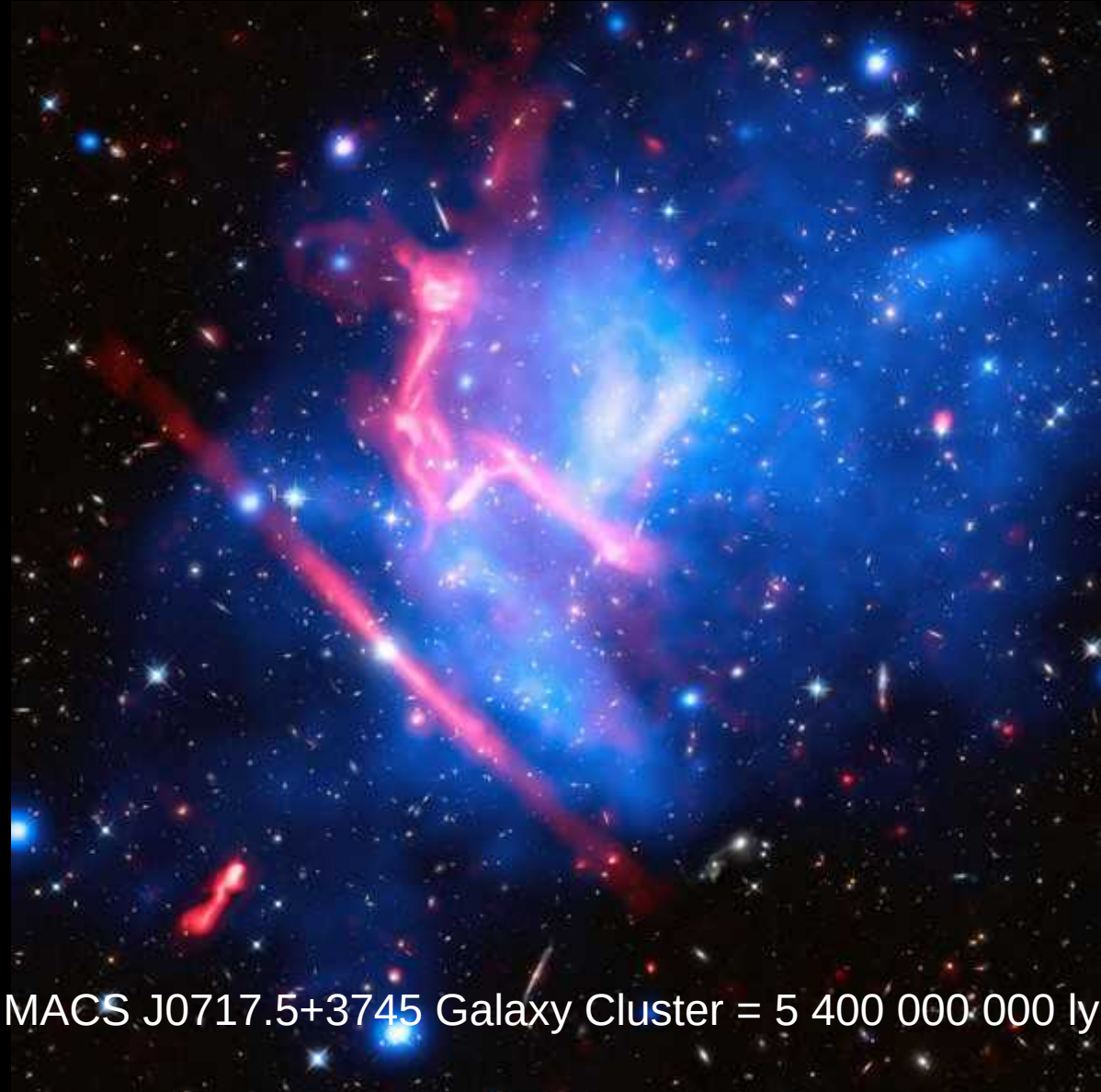
3C 273 Quasar = 2 443 000 000 ly



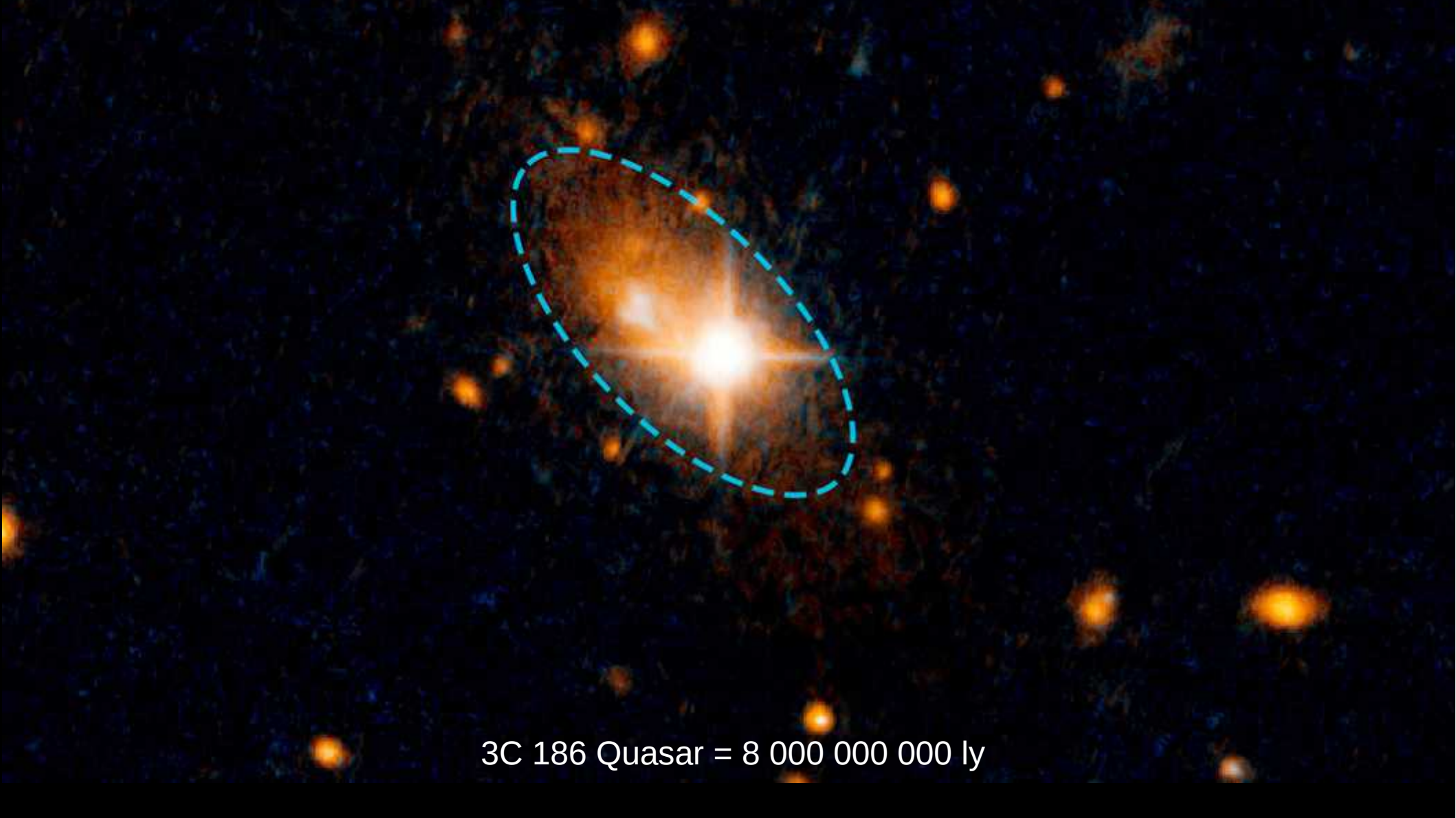
RX-J1532.0+3021 Galaxy Cluster = 3 900 000 000 ly



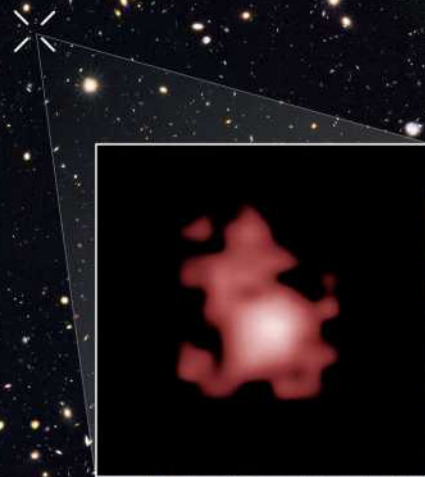
RX-J1347.5-1145 Galaxy Cluster = 5 000 000 000 ly



MACS J0717.5+3745 Galaxy Cluster = 5 400 000 000 ly



3C 186 Quasar = 8 000 000 000 ly



GN-z11 Galaxy = 13 400 000 000 ly

Latest (2016) Estimates:

2 trillion galaxies in observable Universe

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2 trillion galaxies in observable Universe

*“He counts the stars
and calls them all by name.*

*How great is our Lord! His power is absolute!
His understanding is beyond comprehension!”*

[Psalm 147:4-5 NLT]

We are on

The diagram consists of several concentric, semi-transparent rings of different colors (purple, green, blue) that expand outwards from the center. At the center is a realistic image of Earth with the Moon in the foreground. The rings represent increasing levels of cosmic scale, with text boxes pointing to each level. The background is a dark blue space filled with stars and nebulae.

the planet *Earth*,
which is inside

the *Solar System*,
which is inside

the *Milky Way galaxy*,
which is inside

the *Local Group*,
which is inside

the *Laniakea Supercluster*,
which is inside

the *known universe*.

Celebrating the Wonder of the Night Sky

Video