

Astronomy Ranking Task: Star Evolution & Lookback Time

Exercise #1

Description: Imagine that the four stars listed below all became Main Sequence (MS) stars at exactly the same time 10 billion years ago but in different locations of the universe.

Cosmo Star is an O spectral class star with a MS lifetime of 3 million years. Its life will eventually end as a SN type II and become a black hole. Cosmo Star is located in a galaxy 10 billion light years (ly) from Earth.

Ollie Star is a K spectral class star with a MS lifetime of 30 billion years. Its life will eventually end as a slowly cooling white dwarf. Ollie Star is located in the MW at a distance of 10,000 ly from Earth.

Sullivan Star is an F spectral class star that is part of a binary star system. It has a MS lifetime of 5 billion years. Its life will eventually end in a SN type I that completely destroys Sullivan Star. Sullivan Star is located in a galaxy 6 billion ly from Earth.

Sliver Star is a B spectral class star with a MS lifetime of 20 million years. Its life will eventually end as a SN type II and become a neutron star. Sliver is located in the MW at a distance of 40,000 ly from Earth.

A. Ranking Instructions: Rank the stars (from first to last) based on when they became main sequence stars.

Ranking Order: First 1 2 3 4 Last

Or, all the stars became main sequence stars at the same time. (indicate with check mark).

Carefully explain your reasoning for ranking this way:

B. Ranking Instructions: Rank the stars (from first to last) based on when they reach(ed) their final end state.

Ranking Order: First 1 2 3 4 Last

Or, all the stars reach(ed) their final end state at the same time. (indicate with check mark).

Carefully explain your reasoning for ranking this way:

Astronomy Ranking Task Star Evolution Lookback Time

Michael Brown



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