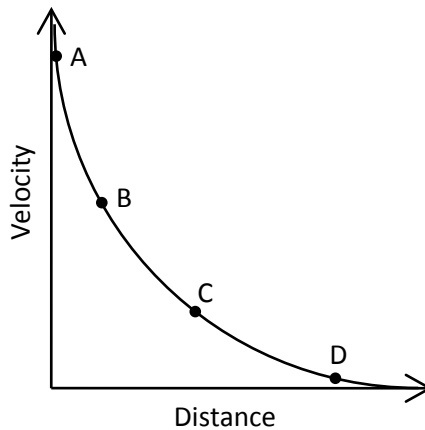


Astronomy Ranking Task: Hubble's Law

Exercise #4

Description: A Hubble plot is shown with dots marking four positions on the curve (A, B, C, & D).



A. Ranking instructions: Rank the speeds at each of the points.

Ranking Order: Slowest 1 _____ 2 _____ 3 _____ 4 _____ Fastest

Or, all points indicate the same speed. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

B. Ranking instructions: Rank the distances at each of the points.

Ranking Order: Closest 1 _____ 2 _____ 3 _____ 4 _____ Farthest

Or, all points indicate the same distance. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

C. Ranking instructions: Rank the slopes of the graph at each of the points.

Ranking Order: Shallowest 1 _____ 2 _____ 3 _____ 4 _____ Steepest

Or, the slope of the graph at each point is the same. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

D. Ranking instructions: Rank the expansion rates at each of the points.

Ranking Order: Slowest 1 _____ 2 _____ 3 _____ 4 _____ Fastest

Or, all points indicate the same expansion rate. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

E. Ranking instructions: Rank the times in the universe at each of the points.

Ranking Order: Earliest 1 _____ 2 _____ 3 _____ 4 _____ Latest

Or, all points indicate the same moment in time. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

F. Does this Hubble plot accurately represent the behavior of our universe? Explain your reasoning.

Yes

No