

Option E — Astrophysics

E1. This question is about the relative population density of stars and galaxies.

The number of stars around the Sun, within a distance of 17 ly, is 75. The number of galaxies in the local group, within a distance of 4.0×10^6 ly from the Sun, is 26.

(a) Calculate the average population density, per ly^3 , of stars and galaxies. [2]

Stars:

$$\bullet \frac{75}{\frac{4}{3}\pi(r)^3} = \frac{75}{4.19 (17)^3} = 3.6 \times 10^{-3} \text{ ly}^{-3}$$

Galaxies:

$$\bullet \frac{26}{\frac{4}{3}\pi(r)^3} = \frac{26}{4.19 (4.0 \times 10^6)^3} = 9.7 \times 10^{-20} \text{ ly}^{-3}$$

- Award [1 max] if the response does not use the volume of the sphere but uses the cube instead

(b) Use your answer to (a) to determine the ratio

$$\frac{\text{average population density of stars}}{\text{average population density of galaxies}}$$

[1]

$$\bullet \frac{10^{-3}}{10^{-20}} = 3.8 \times 10^{16} \quad \text{or} \quad \text{star population density greater than galaxies population density by an order of magnitude 16.}$$

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