

Exercise G4: Structure in the Nearby Universe

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: Which galaxy in the local group appears to have a gravitational influence over its smaller neighbors similar to that of the Milky Way?

- a. Andromeda Galaxy
- b. Triangulum Galaxy
- c. Barnard's Galaxy
- d. Large Magellanic Cloud

Question 2: How far away are the galaxies of the Virgo cluster?

- a. 2 million light years
- b. 10 million light years
- c. 20 million light years
- d. 60 million light years

Question 3: What type of structure is highlighted in yellow in the main window?

- a. Supercluster
- b. Filament
- c. Galaxy cluster
- d. Void

Question 4: The position of the Sun in the Milky Way is marked. Extending outward in two directions from the Sun is an area, called the Zone of Avoidance, that appears to contain no galaxies. What might be the cause of this?

- a. There are no galaxies in this region of space.
- b. This region represents the central plane of the universe.
- c. This region contains all the dark matter in the universe.
- d. Our view along this plane is obscured by gas and dust within the Milky Way.

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Question 5: Each of the dots on the main window represent what type of object?

- a. Galaxies
- b. Galaxy clusters
- c. Star clusters
- d. Stars