
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 from the Milky Way?

- 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 image above?

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

Question 4: The location of the Milky Way galaxy is indicated. Extending outward in two directions from our Sun is an area called the Zone of Avoidance. This area does not appear to contain any 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.

Question 5: What kind of object does each dot on the Main Window represent?

- a. galaxy
- b. galaxy cluster
- c. star cluster
- d. star