

This tutorial will give you a better understanding of the size of the Milky Way Galaxy by investigating the distances and sizes of objects within the Milky Way Galaxy and outside the Milky Way Galaxy elsewhere in the universe. Below is a picture of a spiral galaxy similar to the Milky Way. Because we are located within the Milky Way, we are unable to take a picture of our entire galaxy from the outside. Let's assume that this picture represents our Milky Way Galaxy and has the dimensions labeled below. Note that in this picture, **1 centimeter (cm)** represents **10,000 light-years (ly)**; equivalently, you can use **1 millimeter (mm)** to represent **1,000 light-years (ly)**.



- 1) The Sun's position in the Milky Way is shown in the picture above. What is the approximate distance from the Sun to the center of the Milky Way? Recall that 1 cm represents 10,000 ly.

approximately 25,000 ly

• LMC

Astronomy Lecture Tutorials Solutions

RJ Shavelson



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