General science

Laboratory1 : Galaxies

**Purpose:** Is there a link between the distance of a galaxy and its velocity relative to earth?

**Material:** • Partial List of galaxies and NED NED-1D-4D  
 • Paper  
 • Pencil  
 • Rule

**Protocol :**

1. Make a list of 50 galaxies with varying distances.  
  
 2. Note their speed and distances in Table 1.  
  
 3. Report data in Figure 1 Distance vs. Speed  
  
 4. Analyze the results

Results :

|  |  |  |  |
| --- | --- | --- | --- |
|  | Galaxy name | Distances (Mpc) | Speed (km/s) |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
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| 16 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Galaxy name | Distances (Mpc) | Speed (km/s) |
| 17 |  |  |  |
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| 49 |  |  |  |
| 50 |  |  |  |

Graph

(Title)

(Variable)

(Units)

(Units)

(Variable)

Now, on this diagram, draw the position of the galaxies using an arrow to show the speed of the galaxy (inside if speed is negative and the outside if the speed is positive, the higher the speed, the longer the arrow). This type of graph shows a better picture of a situation

Graph 2Polar Graph Paper

Interpretation of results

Conclusion