

PHYS 723 Homework 1

Nick Tyler

1. Information was found for the energy of different accelerators using information found on wikipedia. This information was compiled into a list and used to make livingston plots for how the center of mass energy changes over time.

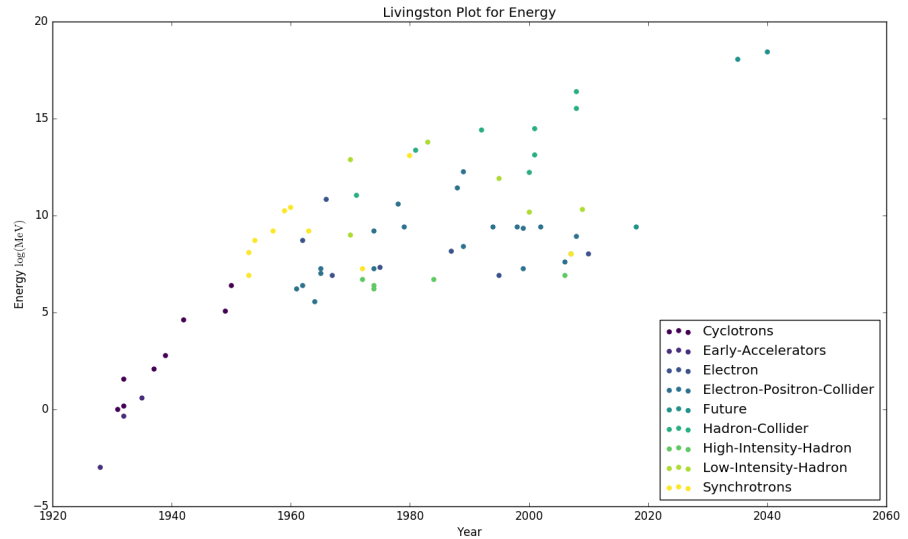


Figure 1: Shows the livingston plot for all accelerators found from the 1930's onward.

The same data was used to make a plot for newer detectors from the 1990's up to some future proposed detectors.

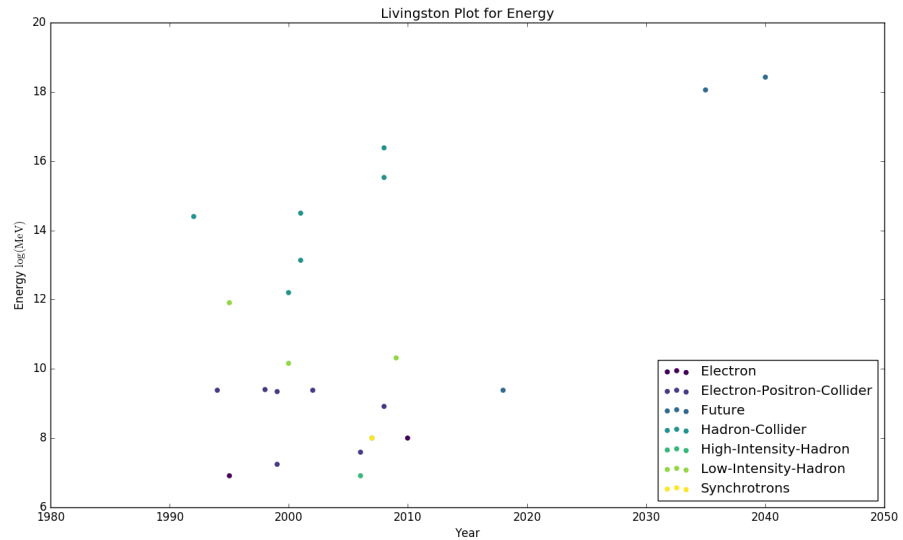


Figure 2: The same livingston plot but for accelerators after 1990.

2. Information on the luminosity was also found and placed into another plot.

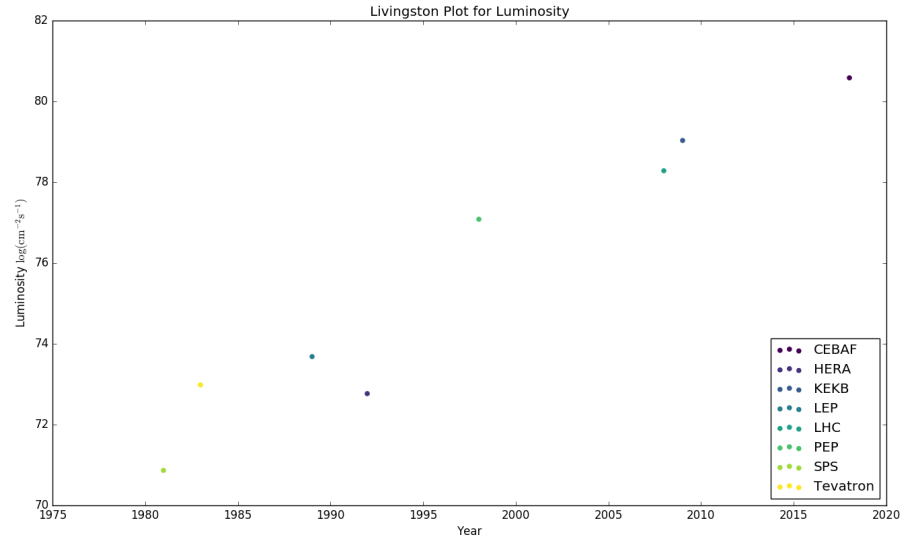


Figure 3: Shows the livingston plot for luminosity of some acceleartors.