Weekly reports are to be emailed to atbecker@uh.edu by 5:00pm on Tuesdays. The purpose of a weekly report is to: (1) give you text and images for your papers, thesis, and dissertation, (2) document progress, (3) identify if you are stuck or need resources.

Weekly report

1. **My *Goals* from last week**
   * To continue investigating the relation between a, s, n, r and PE
   * To provide some plots for the relation between the Energy and the percentage s/a
2. **My *Accomplishments* this week**
   * I provided here the most updated excel sheet for different values of s,r and n with r=1%L to r = 7%L for L = 0.1:

https://github.com/mmsultan17/Robotics-Lab/blob/master/Gauss%20Gun.xlsx

* + Here is the link for the following Plot:  
    n Vs maximum PE in each n for L = 0.1 and r= 1%L

<https://github.com/mmsultan17/Robotics-Lab/blob/master/n%20Vs%20maximum%20PE%20in%20each%20n%20with%20L_0.1%20r_.001.fig>

From the plot you will notice that the maximum value will be at n = 12 the it will start decreasing

* + I found that when L=0.1 the maximum value for r will be approximately 7%L before PE turns into negative values (I will be providing the Plot by Wednesday)

1. **My *Goals* for next week**
   * Improve my writing skills
   * To continue investigating the relation between a, s, n, r and PE
   * Meet with Jarrett and Javier to discuss my initial Mathematical results with their results
2. **What I need Dr. Becker to do:**
   1. To provide me by his feedback to improve my writing skills.
   2. To answer my question regarding the four spheres gauss gun that I will ask in the weekly meeting