

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

- Learn Mathematica basics
- Plot out possible angle values and distances for convergence of a linear swarm onto a corner

2. My Accomplishments this week

- GlobalSwarmConvergenceInCorner
 - <https://github.com/danielbao/Miscellaneous/blob/master/GlobalSwarmConvergenceInCorner.nb>
 - I used the Law of Sines, algebra, and some trigonometry to solve for the collision point of the maximum error vector for a fixed wall vector
 - I generated a plot of the angle β vs. our angular error δ , other plots were generated but they would take up a lot more space.

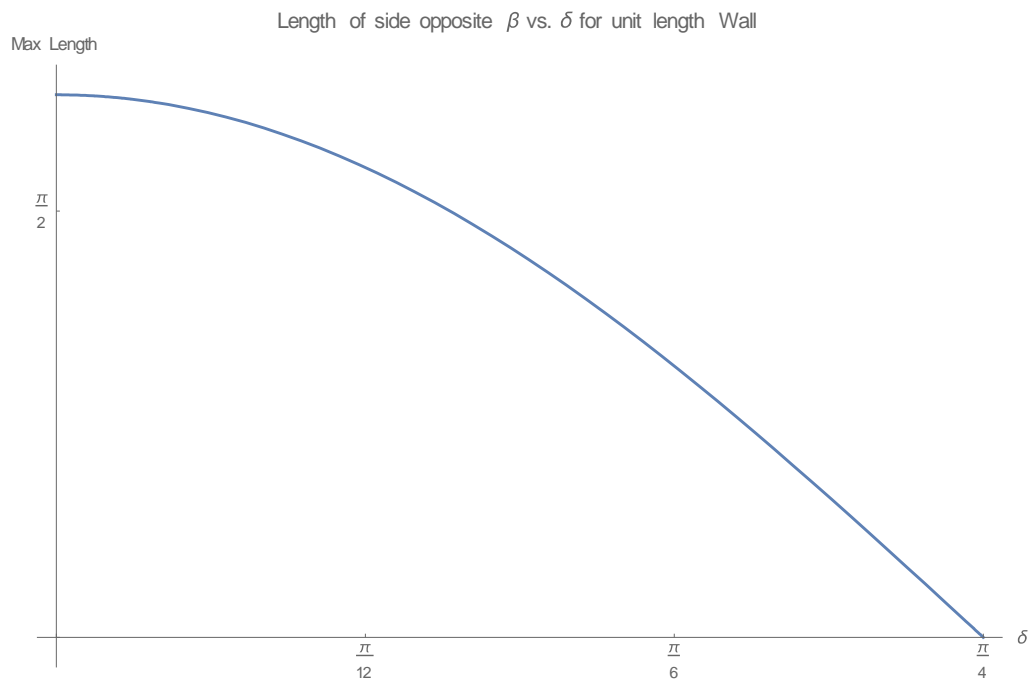


Figure 1: Length of the distance the swarm particle at the leftmost position to the wall for an angle delta

3. My Goals for next week

- Determine the angles for convergence for a circular case of walls
- Begin new platform implementation on ROS
 - Meeting with Dr. Becker on Wednesday Afternoon(6/7/17 after 3:30)?

4. What I need Dr. Becker to do:

- Continue to be a great Professor!