

DeVaughn Croxton

Jane Kim

Team Name: Rayleigh's StingRays

PHY 482

Self Reflection 2

Last week, Jane developed a simple program that showed how the spectral radiance of the Sun changed after Rayleigh scattering. However, the Sun does not emit wavelengths by sweeping through a given range by a designated step size. So this week, we attempted to randomize this process to show the same change in spectral radiance. There are still a few kinks in the code, but we are working to iron them out. After we find a good way to sample random wavelengths, we want to see if including the dependency on the size of the air molecules will change our data. Then we just need to plot our findings.

We were both quite busy this week, but we managed to make some progress on the program. DeVaughn has also encountered some research articles and text from our book sources that could help us moving forward. We have an electronic e-book that discusses Rayleigh scattering and we are also using Griffith's approach to dipole radiation from his book. The two main components to be careful about regarding our project are the intensity function and the dependency on the wavelengths.