

SEMINAR IN PHYSICS

Friday, March 24, 2017
3:30-4:25 - Ross 0220

~ Refreshments! ~

Electromagnetic Launching Technology

Robert Ensley
UNC Physics Major

This presentation will cover the physics behind electromagnetic launching technology, and will further discuss the known types of electromagnetic projectile launchers and the specific principles associated with each type. I will also elaborate on the current applications of each projectile launcher, and will further delve into the magnitude of their possible future endeavors.

Examining the Chaotic Dynamics of a Swirling Flame Caused by Changes in Gravity

Juan Avina
UNC Physics Major

By subjecting a flame to changes in its gravitational orientation due to having the flame front facing different directions with respect to gravity, it is found that the flame behaves dynamically in interesting ways. Particularly, one can find chaotic properties to the behavior of the flame. We will discuss the process by which this flame is subject to different gravitational orientations, what chaotic dynamics looks like, and how it all comes together in the swirling flame.