

# SEMINAR IN PHYSICS

FRIDAY, April 24, 2015

3:30-4:25 · Ross 0220

~ Refreshments! ~

## **The Effects of Solar Variation**

Veronica Buchanan (UNC Physics student)

Solar variation is a phenomenon in which the amount of radiation emitted by the Sun fluctuates with correspondence to the solar cycle. Variations in the number of sunspots have influence on solar output which has become more detectable through the use of satellites.

The use of satellite technology to observe variability has made efforts to better and more easily understand the patterns of solar wind and the Sun's magnetic flux. The changes in total solar irradiance and its interactions with Earth propose questions on the effects of global climate with respect to changes in output of cosmic rays entering the atmosphere.

## **Electromagnetic Suspension**

Kellen Schuebel (UNC Physics student)

Electromagnetic suspension is a way of making things levitate using electromagnets. I will explain what it is, how it works, some history and applications.