

SEMINAR IN PHYSICS

FRIDAY, April 11, 2014
3:30-4:25 – Ross 0220
Refreshments

An Introduction to 3D Printing

JJ Peek (UNC Physics student)

3D printing was developed in 1984 by Charles Hull when he created Stereolithography. Since 1984 there have been countless different printers developed. However, recently with the advent of desktop printers the technology has become widely available and easily accessible. With all the 3D printers on the market it is important to understand the differences between the variety of printers and materials. After deciding on a printer, the user creates or downloads a 3D model. The model is then converted to usable code that the printer can read. After a period of time the printer produces a perfect replica of the digital model.

Quantum Computers

Tyler Smith (UNC Physics student)

Computers have become an important part of our daily lives. Over the past few decades, we have seen the rise of PCs. The next step in the world of computers is the quantum computer. In recent years, there have been many advancements in the theory of quantum computers and the first quantum computers have been built and successfully run. Quantum computers have the potential to offer a substantial improvement in computational power over traditional computers. They also have the ability to run specific algorithms that can solve problems like integer factorization, database searching, and inverting a function.