

SEMINAR IN PHYSICS

Friday, April 19 · 3:30-4:45 · Ross 0220

- Refreshments -

Mr. SQUID:

An Introduction to the Principles of Superconductivity

Hervé Tonye Tonye*

With the help of a superconducting quantum interference device, also known as "Mr. SQUID", I will try to explore and explain some of the properties of superconductivity. By conducting different experiments at extreme temperatures (using liquid Nitrogen) as well as by submerging the probe, I will analyze the different results and elaborate on their conclusiveness by comparing them to the different principles of superconductivity.

Nano-Technology:

A Tiny Glimpse Into the Future

Isaac Lorentz*

Everyday modern medicine is continually challenged to not only diagnose and treat ailments but to also identify these issues in their initial stages before they become harmful. With this daunting task presented, modern medicine is pursuing any and all avenues available not the least of which is Nano-technology. The concepts and ideas behind Nanomedicine, while still in its infancy, have already begun to show promising results in many aspects ranging from drug dispersion to early detection systems for cancer.

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