On Thursday, April 23, in N804, 12:45 - 1:00 pm, the next Math/Physics Colloquium will feature Prof. Marianna Bonanome who will present:

**An Introduction to Quantum Computation**

The possibility to solve intractable problems in mathematics today via efficient quantum algorithms is an exciting prospect. Quantum physics allows one to operate with a superposition of quantum states which simultaneously represent many different numbers. Many areas of mathematics could be revolutionized should efficient algorithms be discovered to solve such problems. These changes may have a serious effect on technology dependent on such mathematics, and may pave the way for new branches of mathematics and new technologies to emerge.

In this talk we will present the history of quantum computation, highlight key concepts such as quantum logic gates and quantum circuits, as well as give an overview of an important quantum algorithm.

Lite Refreshments will be served