Physics Colloquium

Thursday, February 11th at 3:30 pm in SC 234

Dr. Razvan Gelca
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Department of Mathematics and Statistics

Knots and Quantum Mechanics

About 25 years ago, Edward Witten introduced a revolutionary perspective in 3-dimensional geometry, called Chern-Simons theory. This theory created a bridge between quantum physics and several areas of mathematics. I will focus on this idea of bridging physics and mathematics, and discuss my own ideas on how knots, like those that we tie on our shoelaces, can be related to the method of quantization introduced by Hermann Weyl in 1931.

Refreshments 3:00-3:20 pm in SC 103