



DEPARTMENT OF
MATHEMATICS
Illinois State University

Undergraduate Colloquium

Title: Vertex Operator Algebras, String Theory, and Number Theory

Speaker: Darlayne Addabbo

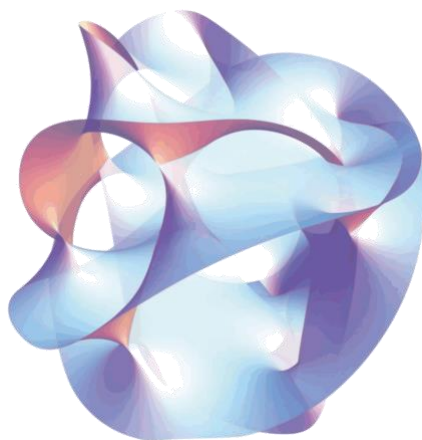
Department of Mathematics, University of Notre Dame

Location: STV 121

Time: 2:00 - 2:50 pm on Thursday (10/24/2019)

Abstract: Vertex algebras are rich algebraic structures which play an important role in many active and relatively new areas of mathematics and physics. They were introduced to mathematics in the work of the Fields medalist Richard Borcherds, and developed by others such as Frenkel, Lepowsky and Meurman in 1980's. In physics, they are part of string theory where they appear as the chiral algebras of two-dimensional conformal field theory.

I will give an introduction to vertex operator algebras and discuss their relation to string theory and number theory. No prior knowledge of these areas will be assumed.



(Derivative work: Polytope24. This file was derived from: Calabi yau.jpg)