



Speaker: David Radnell
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12:30 PM

127 Hayes-Healy Hall

Title: Some analytic and geometric problems in Conformal Field Theory

Abstract:

As well as vertex operator algebras, the mathematical formulation of conformal field in the 1980's introduced new geometric objects and operations. In particular, the infinite-dimensional moduli space of Riemann surface with parameterized boundaries, the sewing operation and the determinant line bundle. We will discuss, in a non-technical way, some open problems and partial solutions regarding the determinant line bundle as well as the right setting for defining correlation functions in CFT for genus greater than zero.