

University of Notre Dame Department of Mathematics

TOPOLOGY SEMINAR

Dmitri Pavlov

UC Berkeley

Will give a lecture entitled:

Jones index via a symmetric monoidal bicategory of von Neumann algebras

On

Tuesday, May 3, 2011

At

12:15PM

In

258 Hurley Hall

Abstract

I will describe a new symmetric monoidal structure on the bicategory of von Neumann algebras, bimodules and intertwiners, which is motivated by conformal and Euclidean field theories. I will then demonstrate how the bicategorical formalism of shadows of 1-morphisms and traces of 2-morphisms developed by Ponto and Shulman yields the Jones index in a purely categorical way.