

Seminar

Prof. Nils Carqueville

SUNY Stony Brook

Equivariant completion of defect bicategories

Wednesday 26, 2014

at 09:30 h

ESI, Boltzmann Lecture Hall

Abstract: Pivotal bicategories are a natural setting within which to study two-dimensional TQFTs with defects. Inspired by the seminal work of Frhlich, Fuchs, Runkel and Schweigert on rational CFT, we describe a completion procedure for certain bicategories that captures and generalises orbifolding by finite symmetry groups. In the context of Landau-Ginzburg models, examples include "discrete torsion" orbifolds, as well as the construction of new equivalences for categories of matrix factorisations of ADE singularities.

J. Fuchs, L. Katzarkov, N. Reshetikhin, C. Schweigert

February 14, 2014