

Speaker: Thomas Wasserman, University of Oxford

Title: $c=1$ CFTs and bundles of tensor categories

Abstract:

In physics papers, the moduli space of Conformal Field Theories of central charge $c=1$ is often depicted as a \mathbb{T} with some disjoint points. In work in progress together with Adria Marin Salvador I am constructing a bundle of module categories over the representation category of the Heisenberg conformal net over this \mathbb{T} . The fibre of this bundle over a point is the category of boundary conditions of the corresponding CFT. We additionally aim to describe the marginal operators for these CFT as a connection on this bundle. In this talk I will give an overview of the ideas involved in this construction.