



Colloquium Wilhelm Killing

# Three approaches to conformal field theory

**Dr. André Hendriques (University of Oxford)**  
**Thursday, July 04, 2019, 16:30, lecture hall M5**

There exist three mathematical formalizations of the concept of chiral conformal field theory: Vertex operator algebras, Conformal nets, and Segal CFTs. These three notions are expected/conjectured to be equivalent (provided appropriate qualifiers are added). In this overview talk, Dr. André Hendriques will explain, based on examples, what are Vertex operator algebras, Conformal nets, and Segal CFTs. He will describe how one is supposed to go from one formalism to the other, and where the main difficulties lie.

**Tea will be served at  
16:00 in the  
Cluster Common Room  
(Orléansring 10, EG)**