



Seminar/Talk

Representation Theory of Vertex Operator Algebras and Gukov-Witten Defects

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A large class of vertex operator algebras can be engineered from junctions of interfaces in maximally supersymmetric 4d Yang-Mills theory. This viewpoint provides us with an intuitive way to study vertex operator algebras together with a link to many other physical and mathematical problems. I will describe the role of Gukov-Witten defects in four dimensions as vertex operator algebra modules. I will determine the Zhu algebras of a class of (generically non-freely generated) W -algebras $Y_{\{LMN\}}$ and use them to construct Zhu algebras of more complicated algebras. The techniques discussed in this talk play an important role in various generalizations of AGT correspondence and ramification of the geometric Langlands program.

Tuesday, July 3, 2018 03:00pm - 05:00pm

Mondi Seminar Room 2, Central Building



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