



Online ISU Algebra Seminar

Date and Time: February 25, 2021 from noon to 12:50 pm.

Speaker: Michael Penn, Ph. D. (Randolph College, Virginia)

Title: Permutation Orbifolds of Vertex Operator Algebras

Abstract: The notion of a vertex algebra was introduced in 1986 by Richard Borcherds and then refined by Frenkel, Lepowsky, and Meurman as part of their effort to construct the Moonshine module. Permutation orbifolds represent an important example of vertex operator algebras. This talk will focus on a few recent constructions of permutation orbifolds - corresponding to the sl_2 vertex algebra as well as the Virasoro vertex algebra. In addition, we will provide a description of some of these cases in terms of \mathcal{W} -algebras.

About Speaker: Michael Penn is an Assistant Professor of Mathematics at Randolph College in Lynchburg, Virginia. His research interests center around the rapidly developing theory of vertex operator algebras and their generalization. In particular, Professor Penn is interested in representation theoretic aspects of the theory, and applications of vertex algebras in combinatorics and q -series.

Zoom Meeting Information

Topic: ISU Algebra Seminar

Time: Feb 25, 2021 12:00 PM Central Time (US and Canada)

Join Zoom Meeting

<https://illinoisstate.zoom.us/j/91577705410?pwd=bFFUWXVQdENWY2NwY1B0MmYwZGRwUT09>

Meeting ID: 915 7770 5410

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