

## Online ISU Algebra Seminar

**Date and Time:** February 18, 2021 from noon to 12:50 pm.

**Speaker:** Kaiming Zhao, Ph. D. (Wilfrid Laurier University, Waterloo, Canada)

**Title:** Simple modules over Witt algebras  $W_d$ .

**Abstract:** Let  $W_d$  be the Witt algebra, that is, the derivation Lie algebra of the Laurent polynomial algebra  $A_d = \mathbb{C}[x_1^{\pm}, x_2^{\pm}, \dots, x_d^{\pm}]$ . Let  $H$  be the Cartan subalgebra of  $W_d$ . All simple  $W_d$ -modules that are finitely generated  $U(H)$ -free modules will be given.

**About Speaker:** Dr. Kaiming Zhao received his Ph.D. in Mathematics from Chinese Academy of Sciences in 1991. Currently, he is a professor at Department of Mathematics, Wilfrid Laurier University (Waterloo, Canada).

Before joining Laurier, Dr. Zhao was a professor at the Institute of Mathematics, Chinese Academy of Sciences in Beijing, China. Dr. Zhao's research interests are in Lie algebra, representation theory, division algebra and linear algebra.

### Zoom Meeting Information

Topic: ISU Algebra Seminar

Time: Feb 18, 2021 12:00 PM Central Time (US and Canada)

Join Zoom Meeting

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