

ISU Algebra Seminar



Title: From Skew Group Algebras to Orbifold Theory of Vertex Algebras

Speaker: Gaywalee Yamskulna (ISU)

Time: 1:00 pm - 1:50 pm on Thursday (09/17/20)

Zoom Meeting ID: 957 5700 9427, Passcode: AlgSeminar

Abstract: In this survey talk, I will first recall properties of skew group algebras and their invariant theory. Next, I will describe relationship between skew group algebras and orbifold theory of vertex algebras. Finally, I will discuss about interesting problems related to Orbifold theory and skew group algebras.

About Speaker: Dr. Yamskulna graduated from Chulalongkorn University, Thailand in 1996 with a bachelor's degree in mathematics, and from the University of California at Santa Cruz (UCSC) in 2001 with a Ph.D. in Mathematics. Throughout her undergraduate and graduate education (1992-2001), Dr. Yamskulna was supported by a Fellowship from the Development and Promotion of Science and Talents Projects which is one of the most prestigious fellowships awarded by the Government of Thailand. Dr. Yamskulna also received a Graduate Fellowship from the Fields Institute in Fall 2000 and a Doctoral Sabbatical Fellowship from UCSC in Spring 2001. Before joining the ISU mathematical sciences faculty in Fall 2004, Dr. Yamskulna was a Postdoctoral Fellow at the Mathematical Sciences Research Institute, Berkeley, in Spring 2002 and a Visiting Assistant Professor at the State University of New York at Binghamton from Fall 2001 to Spring 2004. Currently, Dr. Yamskulna is a full professor and associate chair of ISU Mathematics Department. Her research interest is in representation theory of (super) vertex algebras. She is particularly interested a study of representation theory of N -grade vertex algebras, and the Mathieu Moonshine conjecture.

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