



Online ISU Algebra Seminar

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

Speaker: Haisheng Li, Ph. D. (Rutgers University-Camden)

Title: Deforming vertex algebras by module and comodule actions of vertex bialgebras.

Abstract: Previously, we introduced a notion of vertex bialgebra and a notion of module vertex algebra for a vertex bialgebra, and gave a smash product construction of nonlocal vertex algebras. Here, we introduce a notion of right comodule vertex algebra for a vertex bialgebra. Then we give a construction of quantum vertex algebras from vertex algebras with a right comodule vertex algebra structure and a compatible (left) module vertex algebra structure for a vertex bialgebra. As an application, we obtain a family of deformations of the lattice vertex algebras. This is based on a joint work with Naihuan Jing, Fei Kong, and Shaobin Tan.

About Speaker: Haisheng Li is a full professor of mathematics at Rutgers University-Camden. His research interests are in vertex operator algebras, quantum vertex algebras and their association with various algebras such as Yangians and quantum affine algebras.

Zoom Meeting Information

Topic: ISU Algebra Seminar

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

Join Zoom Meeting

<https://illinoisstate.zoom.us/j/91030271528?pwd=SjBncndpRXZTdFhPS3oxNWJZc1FWZz09>

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