Contribution ID: **60** Type: **Scheduled Talks**

Vertex Algebras for Quiver Varieties

Friday, July 25, 2025 2:00 PM (30 minutes)

Vertex algebras describe two-dimensional conformal field theories in physics. They can be viewed as "chiral quantisations" of symplectic varieties. In this talk, I will explain how to construct vertex algebras over Nakajima quiver varieties by quantum Hamiltonian reduction. As an application, we construct vertex algebras that appear in the context of three- and four-dimensional superconformal field theories. I will also discuss the relation to 3d mirror symmetry and symplectic duality.

Motivation for Participation

Application for a talk

E-Mail

Special requests and comments

Academic Status

Financial Support

Institution (University)

Topic of your talk

Comments and Suggestions on the Community Agreement

Nationality

Country of Institution

Preferred Name

Gender

Preferred Pronouns

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