

Seminar

Dr. Junya Yagi

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Quiver gauge theories and integrable lattice models

Wednesday, June 17, 2015

at 16:15 h

ESI, Schrödinger Lecture Hall

Abstract: I will discuss connections among supersymmetric quiver gauge theories, topological quantum field theories (TQFTs), and integrable lattice models in statistical mechanics. This work combines ideas from (1) the correspondence between class-S theories and TQFTs; (2) "gauge/YBE correspondence" between $N=1$ supersymmetric indices and solutions of the Yang-Baxter equation; and (3) Costello's construction of integrable lattice models from TQFTs equipped with line operators.

N. Carqueville

June 10, 2015