
THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
Superalgebra Theory and Representations Seminar

on Wednesday, Dec 02, 2020 at 18:30

[HTTPS://WEIZMANN.ZOOM.US/J/91984558186?PWD=DZL2Z2HPRWTZADF6R1PYSXD4OGFIQT09](https://weizmann.zoom.us/j/91984558186?pwd=DZL2Z2HPRWTZADF6R1PYSXD4OGFIQT09)
Nikolay Grantcharov Chicago

Finite-dimensional representation theory of the queer Lie superalgebra $q(n)$

Abstract:

We will first describe some classical theory of the queer Lie superalgebras $q(n)$, such as Clifford modules, (generic) character formula for the irreducible representations, and classification of the blocks of finite-dimensional representations. Then we will focus our attention to $q(3)$ and provide an explicit description of the Ext-quivers of the blocks. A proof of a "virtual" BGG reciprocity for $q(n)$, which then gives the radical filtrations of indecomposable projective objects for $q(3)$, will be provided.

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