

Gaiotto Conjectures for Quantum Super-groups

jeudi 8 juillet 2021 17:30 (1 heure)

I am going to explain a series of conjectures due to D.Gaiotto which provide a geometric realization of categories of representations of certain quantum super-groups (such as $U_q(\mathfrak{gl}(M|N))$) via the affine Grassmannian of certain (purely even) algebraic groups. These conjectures generalize both the well-known geometric Satake equivalence and the so called Fundamental Local Equivalence of Gaitsgory and Lurie (which will be recalled in the talk).

In the 2nd part of the talk I will explain a recent proof of this conjecture for $U_q(\mathfrak{N}|N-1)$ (for generic q), based on a joint work with Finkelberg and Travkin.

Summary

Orateur: Prof. BRAVERMAN, Alexander (University of Toronto and Perimeter Institute for Theoretical Physics)