

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

A KOHNO-DRINFELD THEOREM FOR CYCLOTOMIC KZ CONNECTIONS

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Feb 20, 2013, 4:00 – 5:00pm
Math/Computer Science, Room148
111 Cummington Street, Boston

Tea: 3:45pm in Room MCS 144

Abstract: The aim of this talk is to give an explicit computation of the monodromy representations of "cyclotomic" analogs of the Knizhnik–Zamolodchikov differential system. These are representations of the type B braid group B_n^1 . We show how the representations of the braid group B_n obtained using quantum groups and universal R -matrices may be enhanced to representations of B_n^1 using dynamical twists. Then, we show how these "algebraic" representations may be identified with the above "analytic" monodromy representations.

See <http://math.bu.edu/research/geom/seminar.html> or contact Si Li sili@math.bu.edu for more information.