

ALGEBRA SEMINAR

Department of Mathematics
University of Texas at Arlington
presents

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“Duality between representations of
classical Lie algebras and superalgebras”

Friday, February 12, 2010
4:30 p.m., 304 Pickard Hall
Refreshments served at 4:15pm

Abstract:

We establish a category equivalence between parabolic categories \mathcal{O} of classical Lie superalgebras and classical Lie algebras. This provides a complete and conceptual solution of the long-standing irreducible character problem for the general linear and ortho-symplectic Lie superalgebras in a parabolic category \mathcal{O} , which includes all finite-dimensional irreducible modules, in terms of classical Kazhdan-Lusztig polynomials.

This is a joint work with Shuni Cheng and Ngau Lam (Taiwan).

Web-Page for Seminars (Department of Mathematics, UTA)
<http://www.uta.edu/math/pages/main/seminar.htm#algebra>

Contact Professor David Jorgensen at (817)272-5507 or djorgens@math.uta.edu for more information.