

ALGEBRA SEMINAR

Differential geometry and Lie theory in a Supercategory

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ABSTRACT: A supercategory is a Grothendieck tensor category with an odd unit object. This concept includes the category of vector superspaces, as well as geometric categories such as quasi-coherent modules for a sheaf of super-commutative algebras over a superscheme. We show that this is the right context for a number of results in differential geometry and Lie theory, including the Chern-Weil theorem and the Duflo isomorphism. This is joint work with Martin Andler.

MONDAY, OCTOBER 7, 2013
1:40 – 2:30 PM
ROOM 617, WACHMAN HALL
DEPARTMENT OF MATHEMATICS