ALGEBRA SEMINAR

Differential graded (co-)algebras and the (co-)bar construction (Part 2)

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ABSTRACT: For any differential graded algebra A, I will construct a canonical map

 $\operatorname{Cobar}(\operatorname{Bar}(A)) \to A$

and show that this map is in fact a quasi-isomorphism. If time permits, I will also discuss a special class of differential graded algebras, called Koszul algebras, where the resolution $\operatorname{Cobar}(\operatorname{Bar}(A))$ can be simplified.

Monday, November 8, 2010 1:10 – 2:30 pm Room 617, Wachman Hall Department of Mathematics