

Algebra/Topology Seminar

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MOD p HOMOLOGY OF CONFIGURATION SPACES VIA SPECTRAL LIE ALGEBRAS

Thursday, April 13, 2023
3:00 p.m. in BB-B008

ABSTRACT. Labeled configuration spaces of a manifold with labels in a pointed space were introduced by McDuff and Segal as a generalization of unordered configuration spaces. More recently, Knudsen identified labeled configuration spaces with the topological Quillen objects of certain spectral Lie algebras and used a bar spectral sequence to provide a general formula for their Betti numbers. The bar spectral sequence for their mod p homology is much less tractable due to the existence of power operations. I will explain how to compute the E^2 -page and extract information at low weights.