

Algebra/Topology Seminar

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CONNECTIVITY OF COMPLEXES RELATED TO HOMOLOGICAL STABILITY

Thursday, September 12, 2019

1:15 p.m. in ES-143

ABSTRACT. I will describe joint work with Bridget Schreiner and Nathalie Wahl, in which we investigate the connectivity of certain simplicial complexes related to homological stability. As a tool, we introduce a new “doubling” construction for simplicial complexes and show that, given a weak Cohen–Macauley bound for a simplicial complex, it is possible to obtain a weak Cohen–Macauley bound for its double.