

Algebra/Topology Seminar

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AN EXAMPLE OF LIFTINGS WITH DIFFERENT HODGE NUMBERS

Thursday, November 15, 2018
1:15 p.m. in ES-143

ABSTRACT. Does a smooth proper variety in positive characteristic know the Hodge number of its liftings? The answer is “of course not.” However, it’s not that easy to come up with a counterexample. In this talk, I will first introduce the background of this problem. Then I shall discuss some obvious constraints of constructing a counterexample. Lastly I will present such a counterexample and state a few questions of similar flavor for which I do not know an answer.