

Oklahoma State University

Algebra Seminar

Title

Galois groups of Schubert problems via symbolic computation

Speaker: Robert Williams, Texas A&M

Date: Apr 5, 2016

Time: 3:30 PM

Room: MSCS 445

Abstract: The number of solutions to problems in the Schubert calculus is known through combinatorics. However, the actual solution set usually possess additional structure revealed through a Galois group. The method of computing Frobenius lifts from prime characteristic is particularly effective for finding information about this structure for Schubert problems. This talk will survey the results of using these methods to study all 31,807 Schubert problems involving 4-planes in 9-dimensional space.