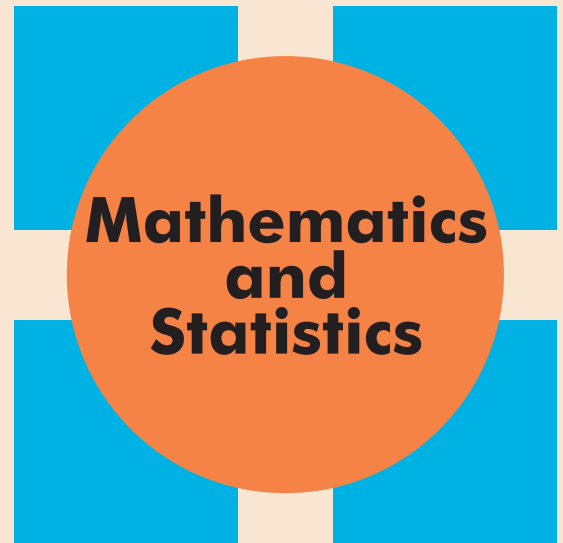


COLLOQUIUM

Eric Primozic

University of Alberta

**Applications of Steenrod
operations to problems in
algebra and algebraic
geometry**



Date: Friday March 6, 2020

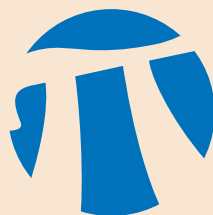
Time: 3:30 - 4:30 PM

Room: RI 209

Abstract: I will discuss how Steenrod operations on mod p Chow groups can be used to study problems in algebra and algebraic geometry. For quadratic forms, Steenrod squares on mod 2 Chow groups are used. Some of the problems that can be solved by studying Steenrod squares on mod 2 Chow groups of projective quadrics include determining the possible values of the first Witt index of an anisotropic quadratic form and constructing fields with certain u -invariants. The results we obtain over a base field of characteristic 2 are new and use the Steenrod squares discussed in my previous talk.

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