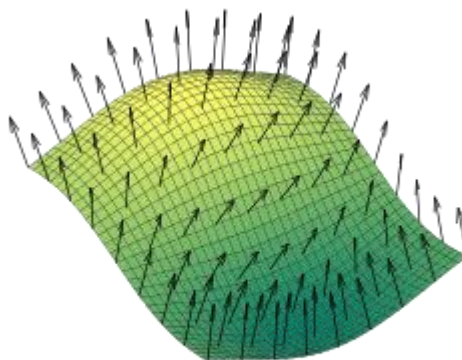


## *Graduate Mathematics Seminar*

### COHERENT SHEAVES AND VECTOR BUNDLES

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**Abstract:** Sheaves can be thought of as functors that attach algebraic datum to topological spaces  $X$ , abstractly speaking a sheaf is a functor from the category of open sets of a topological space  $X$  to the category of sets, abelian groups, rings,  $k$ -algebras and so forth. In this talk we explore the relationship between coherent sheaves and vector bundles in projective space  $P^n$ . This talk will be brief summary of a PhD course taught by algebraic geometer Miles Reid. The aim of this talk is to explore some of the relations between cohomology groups and properties of vector bundles in projective space.

*When:* Monday, March 8, 2021, 6:00 – 7:00 pm

*Where:* Zoom