Finite quot schemes on the projective plane

Abstract:
Following ideas of Marian and Oprea, finite quot schemes can be used to investigate Le Potier’s strange duality conjecture for surfaces. I will discuss recent work with Aaron Bertram and Drew Johnson in which we prove the existence of a large class of finite quot schemes on the projective plane. We use nice resolutions of general stable vector bundles, which also yield an easy proof that these bundles are globally generated whenever their Euler characteristic suggests that they should be.

Special Note:
There will be a pre-talk from 1:30 - 2:00.

Host: Dragos Oprea
Friday, November 18, 2016
2:00 PM
AP&M 5829