

# ALGEBRA SEMINAR

## *Moduli Stacks of Vector Bundles on Neighborhoods of Curves*

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ABSTRACT: We give an explicit description of certain stacks of vector bundles on formal neighborhoods of rational curves inside algebraic surfaces. The presentation involves a Möbius type action of an automorphism group on a space of extensions. We show the applicability of this towards understand moduli stacks of vector bundles on surfaces. I will introduce the above concepts in the talk so this talk will be suitable for graduate students.

MONDAY, OCTOBER 24, 2011  
1:40 – 2:30 PM  
ROOM 617, WACHMAN HALL  
DEPARTMENT OF MATHEMATICS