

ALGEBRA  
SEMINAR

*Vector bundles and finite covers*

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**Abstract:** Let  $Y$  be a variety. A finite cover  $X \rightarrow Y$  of  $Y$  gives a natural vector bundle on  $Y$ , namely the direct image of the structure sheaf of  $X$ . Which vector bundles on  $Y$  arise in this way? I will present an answer to an asymptotic version of this question when  $Y$  is a curve, generalizing previous results of Ballico and Kanev, and answering a question of Lazarsfeld. This is joint work with Anand Patel.

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MATHEMATICS AND COMPUTER SCIENCE  
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