## Columbia University Algebraic Geometry Seminar

## Tom Graber

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Sections over curves and rational connectivity

This talk will be a sequel to the talk given by Joe Harris in the fall. I will describe a necessary and sufficient condition, in terms of rationally connected subvarieties, for a morphism  $X \to B$  to admit a section when restricted to an arbitrary curve in B. This result can be used to deduce the existence of a one-parameter family of Enriques surfaces with no section, answering negatively a question of Serre. The talk will be based on joint work with Joe Harris, Barry Mazur, and Jason Starr.

Friday, January 25, 2002 2:30pm Mathematics 417