

RESTRICTION THEOREMS FOR CURVES

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Let X be a smooth projective variety and let E be a vector bundle on X . A common way to analyze E is to fix a family of curves C on X and to study the restrictions of E to C . In this talk I will give several qualitative statements describing the behavior of these restrictions. As an application, we solve geometric analogues of certain arithmetic questions of Peyre. This is joint work with Eric Riedl and Sho Tanimoto.