



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Freitag, 13. Juli 2018

14 Uhr s.t., Geom H5

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Deformation theory of vector bundles in characteristic p

Abstract:

Let p be a prime number and let S be a scheme of characteristic p . For any integer $n \geq 2$, one can define the scheme $W_n(S)$ of truncated Witt vectors of length n of S . It is a scheme of characteristic p^n , to be thought of as a small thickening of S . In this talk, we address the following question: Does every vector bundle V/S extend to a vector bundle V_n over $W_n(S)$? I will show that the answer is positive under mild assumptions on S . I will start this talk by an introduction to Witt vectors.

Der traditionelle Nachmittagstee fällt an diesem Tag aus.
Treffpunkt für ein gemeinsames Mittagessen ist vor Raum 220 um 12 Uhr.