

## Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

**Dienstag, 25. April 2017**

17 Uhr s.t., Geom H4

Prof. Dr. Christopher Deninger  
(Westfälische Wilhelms-Universität Münster)

### ***Vector bundles on $p$ -adic varieties and representations of the fundamental group***

#### Abstract:

We will describe a  $p$ -adic analogue of a result of Uhlenbeck and Yau: Vector bundles on complete  $p$ -adic varieties whose reduction is Nori-semistable are "etale flat" in the sense that they carry a parallel transport along etale paths. In particular they give rise to representations of the fundamental group. This is related to Faltings'  $p$ -adic Simpson theory. The work is joint with Annette Werner.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.