

A U S H A N G

FREIE UNIVERSITÄT BERLIN

Fachbereich Mathematik und Informatik

Promotionsbüro, Arnimallee 14, 14195 Berlin

DISPUTATION

Montag, 14. November 2016, 16.00 Uhr

Ort: Seminarraum SR 031, Arnimallee 6, 14195 Berlin

Disputation über die Doktorarbeit von

Frau Inder Kaur

Thema der Dissertation:

The C_1 conjecture for the moduli space of stable vector bundles with fixed determinant on a smooth projective curve

Thema der Disputation:

Construction of the moduli space of (semi)stable vector bundles over a smooth, projective curve

Die Arbeit wurde unter der Betreuung von
Prof. Dr. Dr. h.c. mult. H. Esnault durchgeführt.

Abstract: The aim of this talk is to outline the construction of the moduli space of (semi)stable vector bundles $M(r, d)$ on a smooth, projective curve defined over an arbitrary field. One of the first results in this direction was by Mumford in the case when the ground field is \mathbf{C} . This was later generalised by Seshadri to algebraically closed fields of arbitrary characteristic. A more natural construction in characteristic 0, using Grothendieck's Quot scheme was given by Simpson, which also holds in the relative setting. More recently, Langer generalised Simpson's construction to arbitrary characteristic.

Die Disputation besteht aus dem o. g. Vortrag, danach der Vorstellung der Dissertation einschließlich jeweils anschließenden Aussprachen.

Interessierte werden hiermit herzlich eingeladen

Die Vorsitzende der Promotionskommission
Prof. Dr. Dr. h.c. mult. H. Esnault