RUB

LEHRSTUHL XIII - TOPOLOGIE

RUHR-UNIVERSITÄT BOCHUM Gebäude IB 3/73 Universitätsstr. 150 D-44801 Bochum

OBERSEMINAR TOPOLOGIE

Referent:	Tobias Barthel (MPIM Bonn)
Thema:	Tensor triangular geometry, revisited
Zeit:	Donnerstag, 17. Oktober 2019, 16 Uhr s.t. Kaffee/Tee ab 15:30 Uhr
Ort:	Besprechungsraum IB 3/73

Abstract:

Inspired by the pioneering work of Hopkins, Neeman, and Thomason on the classification of thick subcategories of perfect complexes, Balmer constructed for any tensor triangulated category T a geometric object Spc(T) which parametrizes the global structure of T. The subject of tensor triangular geometry is then to study the interplay between Spc(T) and T abstractly as well as for prominent examples.

The first part of this talk will give a quick introduction to tensor triangular geometry through examples from algebra, geometry, and topology. The goal of the second part is to report on joint work in progress with Schlank and Stevenson which revisits and extends Balmer's framework, by introducing the analogue of affine schemes in the context of (higher) tensor triangular geometry. In particular, we will construct the affine line in this setting.

Hierzu sind alle Interessenten herzlich eingeladen!