universität wien

Fakultät für Mathematik

Mathematisches Kolloquium

Mittwoch, 9. Jänner 2019
Sky Lounge

EINLADUNG

Mikhail Khovanov
(Columbia University)

Abstract:
The dimension of a vector space is a non-negative integer and operations on vector spaces, including direct sum and tensor product, can be viewed as categorical liftings of taking the sum and product of non-negative integers. A similar categorical lifting of integer numbers requires the use of complexes of vector spaces. In the talk we'll discuss steps to take towards categorical lifting of rational numbers. In particular, we'll explain a construction, a joint work with Yin Tian, on lifting the ring Z[1/2] of integers with two inverted to one of its categorical counterparts.

14.45 Uhr: Kaffeejause

15.15 Uhr: Vortrag

vinum cum pane im Anschluss

„Towards vector spaces of fractional dimension"

Nils Carqueville
Christian Krattenthaler