



Leibniz  
Universität  
Hannover

Oberseminar  
Institut für Algebraische Geometrie

Burt Totaro  
(UCLA)

The Hilbert scheme of infinite affine space.

I will discuss the Hilbert scheme of  $d$  points in affine  $n$ -space, with some examples. This space has many irreducible components for  $n$  at least 3 and is poorly understood. Nonetheless, in the limit where  $n$  goes to infinity, we show that the Hilbert scheme of  $d$  points in infinite affine space has a very simple homotopy type. In fact, it has the  $A^1$ -homotopy type of the infinite Grassmannian  $BGL(d-1)$ . Many questions remain. (Joint with Marc Hoyois, Joachim Jelisiejew, Denis Nardin, Maria Yakerson).

Donnerstag, 25.06.2020

17:30 - 18:30

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Alle Interessierten sind herzlich eingeladen.