



Oberseminar

zur

Algebra und Algebraischen Kombinatorik

Jenny August
(The University of Edinburgh)

"Hyperplane Arrangements, the Homological Minimal Model Program and Contraction Algebras"

In this talk, I will describe how hyperplane arrangements appear in the Homological Minimal Model Program (an algebraic approach to the classical area of geometry). I will introduce a class of finite dimensional algebras, known as contraction algebras, which are one of the key tools used in this area. I will then describe how the associated hyperplane arrangement can be recovered from the contraction algebra and further, how the hyperplane arrangement controls something that, for a general algebra, is considered extremely complicated; namely, the entire derived equivalence class. If time permits, I will also describe how these results give evidence towards a key conjecture in the area.

Donnerstag, 22.11.2018
ab 14:15 Uhr, a410

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie
und Diskrete Mathematik