Oberseminar
Zahlentheorie und Arithmetische Geometrie

Dr. Johannes Hofscheier
(Otto-von-Guericke-Universität Magdeburg)

"Lattice simplices of bounded degree"

In this talk we present a "moduli"-approach for the study of lattice simplices of bounded degree $s$. More precisely we introduce a topology on the space of lattice simplices of bounded degree and suggest a compactification of it by relating simplices to certain subgroups of the real euclidean space. Using Chabauty-Pontryagin duality we can show that these subgroups form only finitely many maximal families. We present a classification of these maximal families for the bound $s=2$ and conclude the talk by applying our results to the description of the $h^*$-vectors of degree 2 lattice simplices. This is joint work with Akihiro Higashitani.

Donnerstag, 02.02.2017
ab 12:00 Uhr, g117
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie
und Diskrete Mathematik