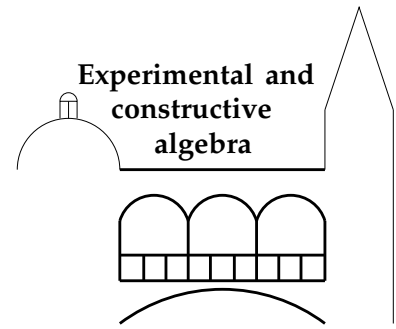


Graduiertenkolleg

Experimentelle und konstruktive Algebra



Kolloquiumsvortrag

Dienstag, 28. Mai 2019, 14:15 Uhr, Hörsaal WK (Raum 1230|001)

SIHUANG HU (LEHRSTUHL D FÜR MATHEMATIK):

Low dimensional strongly perfect lattices

In this talk I will survey the methods developed to classify the dual strongly perfect lattices in dimension 16. The notion of strongly perfect lattices was first introduced by Venkov. They are particularly nice examples of locally densest lattices, and they even realize a local maximum of the sphere packing density on the space of all periodic packings. This work (arXiv:1905.07307) is part of the long term project started by Venkov and Nebe to classify low dimensional strongly perfect lattices. An updated table of all known strongly perfect lattices up to dimension 26 is available in the catalogue of lattices.

(Based on joint work with Gabriele Nebe)

Wir laden alle Interessierten herzlich ein.