Packing minima of convex bodies

Mei Han

TU Berlin

(Joint work with Martin Henk and Fei Xue)

In 2021, Henk, Schymura and Xue introduced packing minima, associated with a convex body and a lattice, as packing counterparts to the covering minima of Kannan and Lovász. Motivated by conjectures on inequalities for the successive minima, we introduce a refined definition of packing minima for centered convex bodies in this talk. For these packing minima, we present novel volume inequalities.