
ANDY NICAS, McMaster University

The horofunction boundary of the Heisenberg group

We find the horofunction boundary of the $(2n + 1)$ -dimensional Heisenberg group with the Koranyi metric and show that it is homeomorphic to a $2n$ -dimensional disk. We also show that the Busemann points correspond to the $(2n - 1)$ -sphere boundary of this disk and that the compactified Heisenberg group is homeomorphic to a $(2n + 1)$ -dimensional sphere. As an application, we find all isometries of the Koranyi metric.

This is joint work with Tom Klein.