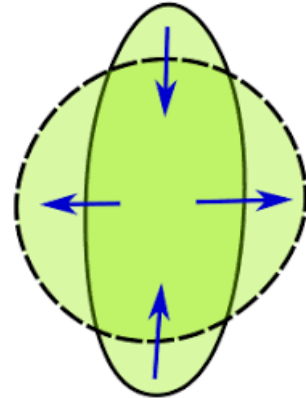**Oberseminar Geometrie**
Department of Mathematics
University of Fribourg
Physics 2.52
Wednesday February 22, 2023, 10:20

Karoly Böröcky (Renyi Institute / ETHZ)

Some variants of the isoperimetric and the isodiametric inequalities in the hyperbolic space

The talk is on "isoperimetric type" problems in the hyperbolic space: sketching Benyamini's proof of the isoperimetric and isodiametric inequality using two-point symmetrization, and discussing some stability versions of these inequalities. Convex bodies of constant width in the hyperbolic space are also considered, including the minimality of the area of the Reuleaux triangle among convex domains of given constant width in the hyperbolic plane.