Oberseminar Geometrie
Department of Mathematics
University of Fribourg
Seminar room, Math II (Lonza)
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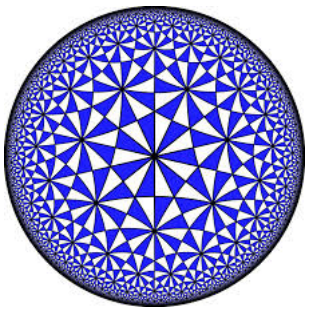

Matthieu Jacquemet (UniFR / HES-SO Valais)

Fundamental hyperbolic polygons of minimal area

It is a classical result due to Siegel that the hyperbolic Coxeter triangle (2,3,7) has minimal area among all polygons which are fundamental domains for the action of a discrete group of isometries on the hyperbolic plane. In this talk, I will prove a generalization of this result to fundamental hyperbolic n-gons with n fixed and of minimal area, and discuss some related questions involving inradius minimality and commensurability.