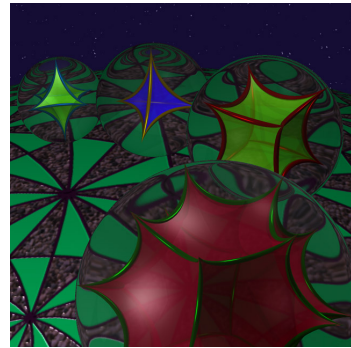


Oberseminar Geometrie
Department of Mathematics
University of Fribourg
Seminar room, Math II (Lonza)
Wednesday April 11, 2018, 10:20-12:00



OLIVIER MILA (Bern)

Nonarithmetic hyperbolic manifolds and trace rings

We will recall the definition of arithmetic manifolds and explain the construction of Belolipetsky-Thomson yielding hyperbolic manifolds with short systole. A simple condition on the hyperplanes used in the construction will be given to ensure nonarithmeticity. Finally we will introduce the (adjoint) trace ring and explain how it can be used in this case to get pairwise non-commensurable manifolds.