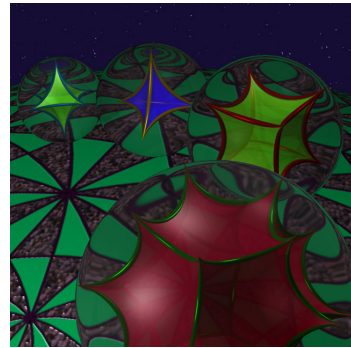


Oberseminar Geometrie
Department of Mathematics
University of Fribourg
Seminar room, Math II (Lonza)
Wednesday May 8, 2019, 10:20-12:00



ANDREA SEPPI (Grenoble)

Examples of four-dimensional geometric transition

Roughly speaking, a geometric transition is a deformation of geometric structures on a manifold, by "transitioning" between different geometries. Danciger introduced a new such transition, which enables to deform from hyperbolic structures to Anti-de Sitter structure, going through another type of real projective structures called "half-pipe", and provided conditions for a compact 3-manifold to admit a geometric transition of this type. By extending a construction of Kerckhoff and Storm, I will describe examples of finite-volume geometric transition in dimension 4. This is joint work with Stefano Riolo.