

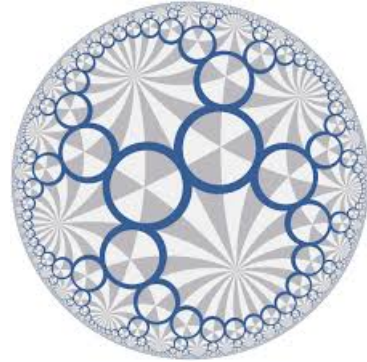
Oberseminar Geometrie

Department of Mathematics

University of Fribourg

Physics 2.52

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On Thurston's algorithm for hyperbolic circle packings

The existence and uniqueness of circle packings of prescribed combinatorial type on closed surfaces is called the circle packing theorem. Thurston proved it for the genus bigger than or equal to one while Andreev showed the genus zero case. Thurston also suggested the iterated algorithm to construct a circle packing with a prescribed pattern, which was explained in the paper of Rodin and Sullivan. Colin de Verdière proved the convergence of Thurston's algorithm for the case of genus one. In this talk we show the convergence of the higher genus case.