

Mathematics Colloquium

of the University of Luxembourg

in cooperation with the
Luxembourg Mathematical Society

Tuesday 15 December 2015, at 4 pm

Campus Kirchberg, Room B02

Prof. Dr. Jeffrey F. Brock

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Jeff Brock is a foremost expert of three-dimensional topology, geometric group theory, hyperbolic geometry and Teichmüller theory. After his PhD at University of California, Berkeley, in 1997, he held positions at Stanford University and the University of Chicago before coming to Brown University, where he is chair of the Mathematics department. He is also Associate director of ICERM, the Institute for Computational and Experimental Research in Mathematics.



Three dimensional manifolds, Kleinian groups and hyperbolic geometry after Thurston

In his 1982 paper in the Bulletin of the AMS, William Thurston laid out a prophetic picture for the shape of three-dimensional geometry and topology for the next generation. His vision included many important motivating conjectures for the field that have driven research in the last thirty years. While many questions raised by his singular perspective have now been resolved, some lingering pieces are among the most profound. In this talk I will describe how these last pieces of Thurston's program promise to open the door to a new vista of questions at the interface of geometry and topology.

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