

## Oberseminar Geometrie

Department of Mathematics

University of Fribourg

**Physics 2.52**

Wednesday, 8 May 2024, 10:20



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### The growth rates of ideal Coxeter polyhedra in hyperbolic 3-space

In 2011, Kellerhals and Perren conjectured that the growth rates of the reflection groups given by compact hyperbolic Coxeter polyhedra are always Perron numbers. We prove that this conjecture holds in the context of ideal Coxeter polyhedra in hyperbolic 3-space and discuss further implications if time permits.