

Continued fractions, hyperbolic geometry, and Farey arithmetic.

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Continued fractions are usually first met in number theory, but they can be viewed as the boundary action of a group of isometries of the hyperbolic plane, and as paths in the abstract Farey graph. In this talk I shall give a little of the history of continued fractions, and then show how they arise naturally from hyperbolic geometry, and exist on the boundary of hyperbolic space of any dimension.