

Mathematics Student Colloquium

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**A Background for
Higher-Dimensional
Hyperbolic Geometry**

Abstract: In the first talk, we will define Möbius Transformations in dimension n and discuss why these transformations are central to the study of hyperbolic geometry. We will then classify these transformations and study them in greater detail in dimensions two and three, thereby developing the necessary tools to step into dimension four.

Wednesday, October 1

**4:00-5:00pm
204 Smith Hall**