

TEMPLE

MATH CLUB

**Space-filling curves coming
from hyperbolic geometry -
Ross Griebenow**

WHEN

**April 25, 2024
5-6 PM**

WHERE

Wachman Hall 617

Interesting constructions of fractal curves that completely fill higher dimensional spaces have been known for 130 years, but it's not obvious that such curves ever arise naturally. Starting with an elementary introduction to hyperbolic geometry, I'll describe a simple and organic example of sphere-filling curves due to Cannon and Thurston. Prerequisites will be limited to groups and their actions on sets.

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