What is dimension?

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Date: Tuesday, February 25

Time: 12:00 - 12:50 pm

Location: Room 703, Thackeray Hall

Curves are dimension 1, surfaces have dimension 2, but fractals have non-integer dimensions. But what is this "dimension"? What does it really mean for the West coast of Britain to have dimension 1.25? After defining the Hausdorff dimension, I will compute that of some household fractals such as Cantor's set, Koch snowflake, and Sierpinski carpet. Expect to get your black-and-white copies of some fractals! Food and drinks will be provided!

Behnam has been at Pitt since Aug 2015. His research is in the area of Geometric Analysis under supervision of Dr. Hajlasz. He has a passion for teaching mathematics and writing about math (you can find his articles on AMS Graduate Weblog). He is also a member of University Chess Club and holds a USCF rating of 2100. He always plays 1.d4 with White. :)

SPEAKER(S) FOR NEXT WEEK:

Dr. Tom Everest

Organized by: Derek Orr, Tom Everest, Jeremiah Morgan, and Jeff Wheeler