

Lecture 1: A tale on Two Fractals

4 p.m., Monday, March 28, 106 Deady Hall

Abstract: The physical notion of a fractal set and its mathematical counterparts. Two examples: Sierpinski gasket S and Apollonian gasket A . Harmonic functions on S and generalized numerical systems. Geometric, group-theoretic, and arithmetic properties of A . Are S and A similar?