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**Samantha K Fairchild\*** ([samantha.fairchild15@houghton.edu](mailto:samantha.fairchild15@houghton.edu)), **Rafael Setra** and **Robert Strichartz**. *The abelian sandpile model on fractal graphs*. Preliminary report.

Research concerned with placing grains of sand on a single vertex in the integer lattice and then “toppling” the sandpile according to certain rules is extensively studied in relation to boundary growth and the formation of fractal patterns. Using the fractal patterns as inspiration, we consider graph approximations of postcritically finite fractals including the Sierpinski gasket, the Mitsubishi gasket, the Pentagasket, and the Hexagasket. We share results for asymptotic behavior of the boundary as the number of grains of sand placed on a single vertex increases as well as results and conjectures regarding the patterns of the resulting configurations in relation to the sandpile group. (Received September 16, 2014)