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**Sharat Chandra, Fiona Galzarano\*** (fig@temple.edu) and **Robert Strichartz**. *Analysis on Apollonian Gaskets*. Preliminary report.

We are interested in constructing energy forms and Laplacians on Apollonian gasket fractals that are related to the geometry of the fractal. We begin by studying finite approximations obtained by packing a finite number of circles, and we are able to compute geometric information such as arc lengths and areas of "triangular" regions. This leads to energy forms and Laplacians on the approximations. Our preliminary experimental evidence suggests that there may be several different Laplacians in the limit, depending on the criterion used for refining the approximations. (Received January 26, 2016)