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Kasso Okoudjou* (kasso@math.umd.edu), University of Maryland, College Park, MD 20742,
and **Luke Rogers** and **Robert Strichartz**. *Szego limit theorems on the Sierpinski gasket.*

In this talk, I will show how the existence of localized eigenfunctions of the Laplacian on the Sierpiński gasket can be used to formulate and prove analogues of the strong Szegő limit theorem in this fractal setting. (Received June 10, 2011)