1153-46-233 **Andrea Arauza Rivera*** (andrea.arauzarivera@csueastbay.edu), 25800 Carlos Bee Blvd, SF 547, Hayward, CA 94542. *Spectral Triples and Analysis on Fractals.*

Spectral triples, a tool from noncommutative geometry, have been used to describe aspects of the geometry of fractal sets including fractal dimension, geodesic distance, and measure. We will examine the further use of spectral triples to study analysis on fractals. The Sierpinski gasket will serve as the primary example as we construct a spectral triple which can describe the Laplacian on the Sierpinski gasket defined by Kigami. (Received August 28, 2019)