

1172-46-339

Fabio E.G. Cipriani* (fabio.cipriani@polimi.it), Piazza Leonardo da Vinci 32, 20133 Milano, Italy, **Daniele Giodo**, Roma, Italy, **Tommaso Isola**, Roma, Italy, and **Jean-Luc Sauvageot**, Paris, France. *Noncommutative Sierpinski gasket.*

We illustrate the construction of a C^* -algebra A that realizes a quantization of the classical Sierpiński gasket, one of the most studied example of a self-similar fractal space. We then study the discrete and continuous spectrum of A , the structure of traces, the construction of a Dirichlet form E and a spectral triple (A,D,H) . (Received August 31, 2021)