1139-30-17   **Hrant Hakobyan** and **Wenbo Li*** (`liwenbomaths@gmail.com`). *Quasisymmetric Embeddings of Slit Sierpiński Carpets into the Plane.*

The study of quasiconformal geometry of fractal metric spaces has received much attention recently. In particular, the metric spaces homeomorphic to the classical Sierpiński carpet, also known as metric carpets, were studies partly because of problems arising in geometric group theory.

A mapping between metric spaces is called quasisymmetric if it distorts relative distances and sizes of sets by a bounded amount. One of the most important questions in the theory is the problem of quasisymmetrically embedding a metric space into an Euclidean space. In this talk we will define a class of spaces called slit Sierpiński carpets and will completely characterize those slit Sierpiński carpets which can be embedded quasisymetrically into the plane. The main tools are classical and transboundary modulus of families of curves. (Received February 12, 2018)