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Quasiconformal images of McMullen carpets and self-affine percolation clusters

We establish lower bounds on the dimension of a quasiconformal images of the self-affine McMullen carpets. We also compute the conformal dimension of . We also show that the clusters of a self-affine version of fractal percolation are a.s. minimal, i.e., the dimension of any quasiconformal image of the cluster can not be less then the dimension of the set itself.

This is a joint work with Hrant Hakobyan (Toronto).