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Ilia Binder and **Hrant Hakobyan*** (hhakob@math.toronto.edu), 40 St. George str., Toronto, Ontario M6G 2N2, Canada. *Conformal dimension of random and deterministic self-affine sets.*

It was shown by the second named author that families of measures of positive Fuglede modulus in a space X sometimes give lower bounds for the conformal dimension of X . We use this result to obtain lower bounds for the conformal dimension of self-affine Bedford-McMullen sets. We also define a self-affine version of Mandelbrot's fractal percolation and show that a random self-affine set is minimal for conformal dimension. (Received February 23, 2010)