

**On the dimension of diagonally affine self-affine sets and overlaps.**

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We consider self-affine IFS on the plane of the form  $f_i(x) = A_i x + t_i$ ,  $i = 1, \dots, m$ , where the matrices  $A_i$  are diagonal matrices of norm smaller than one. We combine methods of Hochman with the Ledrappier-Young formula to compute the dimensions of the corresponding self-affine set and self-affine measures.

Joint work with Balazs Barany and Michal Rams.