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 $f_i(x) = A_i x + t_i$, $i=1,...,m$, 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.