1145-37-2832 **Nick Mendler*** (nickmendler101@gmail.com). *The connectedness locus of IFS consisting of two similitudes.*

An escape time algorithm is presented for the generation and exploration of the connectedness locus of IFS which consist of 2 similitudes of the plane. The space of IFS consisting of any two similitudes of $\mathbb{C}$ is parameterized over $\mathbb{C}^4$, and while considering the locus of IFS corresponding to connected attractors the domain is compressed to $\mathbb{C}^2$. The investigated locus contains as a cross-section the 'Mandelbrot Set for pairs of linear maps' - which was introduced by Barnsley and Harrington in 1985 and subsequently related by Odlyzko and Poonen to the locus of points which are roots of complex polynomials with coefficients in $\{0, 1\}$. (Received September 25, 2018)