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**De-Jun Feng** (djfeng@math.cuhk.edu.hk) and **Karoly Simon\*** (simonk@math.bme.hu).

*Dimension estimates for  $C^1$  iterated function systems.*

We introduce a generalized transversality condition (GTC) for parameterized families of  $C^1$  IFSs, on  $\mathbb{R}^d$  and show that if the GTC is satisfied then the dimensions of the attractor and of the ergodic invariant measures are given by the singularity dimension, and Lyapunov dimension respectively, for “typical”  $C^1$  IFSs under this transversality condition. Then we verify the GTC for some parametrized families of  $C^1$  IFSs on  $\mathbb{R}^d$ . (Received August 08, 2021)