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Moments and iterated function systems. Preliminary report.

In this talk, we will consider a class of iterated function systems (IFSs) consisting of transformations on spaces of infinite by infinite moment matrices associated with positive Borel measures on \mathbb{R}^d or on the complex plane \mathbb{C} . An IFS on \mathbb{R}^d or \mathbb{C} induces a system on moment matrices, and this induced system and operators on some associated Hilbert spaces will be the focus of this talk. (Received September 18, 2007)