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Lipschitz Equivalence of Cantor Sets.

Two sets E, F are said to be Lipschitz equivalent if there is a map $f : E \rightarrow F$ such that both f and f^{-1} are Lipschitz. In this talk we consider the Lipschitz equivalence of two Cantor sets. We present necessary and sufficient conditions for their equivalence. In particular, we show that the algebraic properties of the contraction ratios for the Cantors sets play significant role here. (Received September 22, 2011)