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*An infinitary version of Sperner's Lemma*

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**Abstract:** We prove an extension of the well-known combinatorial-topological lemma of E. Sperner to the case of infinite-dimensional cubes. It is obtained as a corollary to an infinitary extension of the Lebesgue Covering Dimension Theorem.

**Keywords:** simplex, colouring, covering dimension, point-finite, fixed point, algebraic topology

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