## EMBEDDING METRIC SPACES INTO $c_0$ .

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ABSTRACT. Let (M, d) be a separable metric space and  $\lambda > 1$ . We say that M strongly  $\lambda$ -embeds into  $c_0$  (endowed with its usual supremum norm) if there exists  $f = (f_n) : M \to c_0$  Lipschitz continuous, such that whenever  $x, y \in M$  and  $x \neq y$ , then d(x, y) < ||f(x) - f(y)|| and for each n, the Lipschitz constant of  $f_n$  is less than  $\lambda$ . We characterize separable metric spaces that strongly  $\lambda$ -embed into  $c_0$  by an internal property called  $\pi(\lambda)$ . All separable metric spaces strongly 2-embed into  $c_0$ . This is a joint work with Florent Baudier and simplifies former work obtained by Nigel Kalton and Gilles Lancien.