## COMPUTATION OF MAXIMAL PROJECTION CONSTANTS

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ABSTRACT. The relative linear projection constant  $\Pi(E, F)$  of two Banach spaces  $E \subset F$ , dim $(E) < +\infty$ , is the smallest norm of a linear projection of F onto E. The exact value of many non-linear Lipschitz extension moduli may be obtained by computing certain relative linear projection constants. In the talk, we derive a formula for the maximal value  $\Pi_n$  of  $\Pi(E, \ell_{\infty}(\mathbb{N}))$  amongst *n*-dimensional Banach spaces E. By means of this formula, we give an alternative proof of  $\Pi_2 = \frac{4}{3}$ , and compute the exact value of the absolute Lipschitz extendability constant of three-point metric spaces.