

# APPROXIMATION OF MAPS INTO SPHERES BY REGULOUS MAPS

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ABSTRACT. Let  $X$  be a compact real algebraic set of dimension  $n$ . We prove that every Euclidean continuous map from  $X$  into the unit  $n$ -sphere can be approximated by regulous map, i. e. a map of a recently introduced class exhibiting better approximation properties than regular maps. This strengthens and generalizes previously known results.