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Donald M Davis*, dmd1@lehigh.edu, Bethlehem, PA 18015. *On the topological and geodesic complexity of n -dimensional Klein bottles.*

Several years ago, the author introduced a natural n -dimensional version K_n of the Klein bottle. Its topological complexity, still unresolved, might be the next example, after tori and real projective spaces, which is significantly lower than the dimensional bound for TC of planar polygon spaces. Geodesic complexity, $GC(X)$, was introduced recently by David Recio-Mitter. In joint work, we have shown that $GC(K_n)=2n$. (Received August 30, 2019)