1117-52-115    **Steven D. Hoehner**, **Carsten H. Schuett*** (`schuett@math.uni-kiel.de`) and **Elisabeth M. Werner**. *The Surface Area Deviation of the Euclidean Ball and a Polytope.*

While there is extensive literature on approximation of convex bodies by inscribed or circumscribed polytopes, much less is known in the case of generally positioned polytopes. Here we give upper and lower bounds for approximation of convex bodies by arbitrarily positioned polytopes with a fixed number of vertices in the symmetric surface area deviation. (Received January 07, 2016)