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Steven D Hoehner* (sdh60@case.edu), 10900 Euclid Ave, Yost Hall, 201, Cleveland, OH 44107, and **Carsten Schuett** and **Elisabeth Werner**. *The Surface Area Defect of the Euclidean Ball and a Polytope*.

There is a constant c such that for every $n \in \mathbb{N}$, there is an N_n such that for every $N \geq N_n$ there is a polytope P in \mathbb{R}^n with N vertices such that

$$\text{vol}_{n-1}(\partial(B_2^n \Delta P)) \leq c \frac{\text{vol}_{n-1}(\partial B_2^n)}{N^{\frac{2}{n-1}}},$$

where for two convex bodies K and L , $\text{vol}_{n-1}(\partial(K \Delta L))$ is the surface area of the symmetric difference of K and L . (Received August 28, 2014)