Title: Area of reduced polygons
Author(s): Marek Lassak

A convex body $R$ of Euclidean space $E^{d}$ is said to be reduced if every convex body $P \subset R$ different from $R$ has thickness smaller than the thickness $\Delta(R)$ of $R$. We prove that the area of every reduced polygon $R$ is smaller than $\frac{1}{4} \pi \cdot \Delta^{2}(R)$ and that the factor $\frac{1}{4} \pi$ cannot be lessened. We conjecture that the area of every planar reduced body is at most $\frac{1}{4} \pi \cdot \Delta^{2}(R)$.

Address:
Marek Lassak
University of Technology
85-796 Bydgoszcz
Poland
E-mail: lassak@mail.atr.bydgoszcz.pl

