1014-53-565   **Mohammad Ghomi*** (`ghomi@math.gatech.edu`), School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332, and **Jaigyoung Choe** and **Manuel Ritore**. *Relative isoperimetric inequality outside convex bodies.*

We prove that the area of a hypersurface which traps a given volume outside of a convex body in Euclidean n-space must be greater than or equal to the area of a hemisphere trapping the given volume on one side of a hyperplane. (Received September 20, 2005)